# N1200

## **Communication Protocol – V10x**

## 1. SERIAL COMMUNICATION

## 1.1 COMMUNICATION INTERFACE

The optional serial interface RS485 allows to address up to 247 controllers in a network communicating remotely with a host computer or master controller.

### RS485 Interface

- Compatible line signals with RS485 standard
- 2 wire connection from master to up to 31 slaves indicators in a multidrop bus. It is possible address 247 nodes with multiple outputs converters.
- Maximum communication distance: 1000 meters
- The RS485 signals are:
  - D1 = D: Bidirectional data line.
  - $D0 = \overline{D}$ : Bidirectional inverted data line.
  - $\label{eq:C} C = GND: \qquad \mbox{Optional connection which left communication better}.$

#### **General Characteristics**

- Optically isolated serial interface
- Programmable baud rate: 1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115200 bps.
- Data Bits: 8
- Parity: None, Even or Odd.
- Stop Bits: 1

#### **Communication Protocol**

The MOSBUS RTU slave is implemented, available in most SCADA softwares in the market.

All configurable parameters can be accessed (for reading or writing) through the Registers Table. Broadcast commands are supported as well (address 0).

- The available Modbus commands are:
  - 03 Read Holding Register
  - 05 Force Single Coil (Force Digital Output state)
  - 06 Preset Single Register

16 - Preset Multiple Registers (Block write to multiple holding registers)

The registers are arranged in a table in such a way that several registers can be read in the same request.

#### 1.2 CONFIGURATION OF SERIAL COMMUNICATION PARAMETERS

Two parameters must be configured in the device for serial communication:

**bRud**: Baud rate. All devices with same baud rate.

 $\ensuremath{\textbf{Rddr}}$  : Device communication address. Each device must have an exclusive address.

Prty: Paraty.

#### 1.3 REGISTERS TABLE

Equivalent to the registers referenced as 4XXXX.

The holding registers are basically a list of the internal indicator parameters. All registers above address 12 can be read or written. The registers up to this address in more are read only. Please verify each case. Each table parameter is a 16 bits two complement signed word.

Holding	Parameter	Register Description
Registers		
0000	Active SP	Read: Active control SP (main SP, from ramp and soak or from remote SP). Write: to main SP Range: from <b>SPLL</b> to <b>SPHL</b> .
0001	PV	Read: Process Variable. Write: Not allowed. Range: Minimum value is the one configured in <b>SPLL</b> and the maximum value is the one configured in <b>SPHL</b> . Decimal point position depends on <b>dPPo</b> value. In case of temperature reading, the value read is always multiplied by 10, independently of <b>dPPo</b> value.
0002	MV	Read: Output Power in automatic or manual mode. Write: Not allowed. See address 28. Range: 0 to 1000 (0.0 to 100.0%).
0003	Remote SP type	Read/Write: Selected input type for remote SP. Range: 0 to 3
0004	Display value	Read: Current value shown on display. Write: Current value shown on display. Range: -1999 to 9999. The range depends on the displayed parameter.

0005		
	Prompt	Read: Current prompt position in the parameters flowchart.
	index	Write: not allowed. Range: 0000h to 060Ch
		Prompt number format: XXYYh, where:
		XX->menu cycle number (check item 4
		INSTALLATION/CONNECTIONS)
		YY→prompt number (index).
0006	Status	Read: Status bits. See table 2.
	Word 1	Write: not allowed.
0007	Software	Read: The firmware version of controller. If V1.00, the read
	Version	value will be 100.
		Write: not allowed.
8000	ID	Read: controller identification number.
		Write: not allowed.
		Values:
		1 – N1100; 2 - N2000; 3 - N1500; 48 - 1200
		Other values: special instruments.
0009		Read: Status bits. See table 2.
	2	Write: not allowed.
0010		Read: Status bits. See table 2.
	3	Write: not allowed.
0011	lr	Integral Rate (in repetitions/min)
		Range: 0 to 9999 (0.00 to 99.99)
0012	dt	Derivative Time (in seconds). Range: 0 to 3000 (0.0 to
		300.0)
0013	РЪ	Proportional Band (in percentage)
		Range: 0 to 5000 (0.0 to 500.0)
0014	E PAZ	Read/Write: Time base for the ramp and soak programs.
		Range: 0 – 1 (seconds/minutes)
0015	ct	Cycle Time (PWM, in seconds)
		Range: 5 to 1000 (0.5 to 100.0)
0016	FrE9	Read/Write: Mains frequency.
	_	Range: 0 – 1 (60/50Hz)
0017	HYSE	On/Off Control Hysteresis (in selected type engineering
		unit).
	_	Range: 0 to SPHL - SPLL
0018	FLEr	Read/Write: PV digital filter gain.
		Range: 0 – 20
0019	oull	Output Low Limit (minimum output power)
		Range: 0 to 1000 (0.0 to 100.0%).
0020	ouHL	Output High Limit (minimum output power)
		Range: 0 to 1000 (0.0 to 100.0%).
0021	RuEn	N2000 only.
		Auto/Man key Enable – 👫
		$1 \rightarrow$ Key enabled $0 \rightarrow$ Key disabled
0022	FFunc	N2000 only.
		F key function.
		• Notwood • • • • • • • • • • • • • • • • • •
		<b>0</b> $\rightarrow$ Not used. <b>7</b> $\rightarrow$ Controller start/stop. <b>9</b> $\rightarrow$ Select remote SP. <b>9</b> $\rightarrow$ Pamp and seek held
		<b>8</b> $\rightarrow$ Select remote SP. <b>9</b> $\rightarrow$ Ramp and soak hold.
0023	Serial	<b>8</b> → Select remote SP. <b>9</b> → Ramp and soak hold. <b>10</b> → Enable ramp and soak profile 1.
0023	Serial	<ul> <li>8 → Select remote SP.</li> <li>9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> </ul>
	number H	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> </ul>
0023	number H Serial	<ul> <li>8 → Select remote SP.</li> <li>9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> </ul>
0024	number H Serial number L	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> </ul>
	number H Serial	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> </ul>
0024	number H Serial number L SV	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> </ul>
0024	number H Serial number L	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> </ul>
0024	number H Serial number L SV	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected</li> </ul>
0024 0025 0026	number H Serial number L SV SPLL	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL.</li> </ul>
0024	number H Serial number L SV	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> </ul>
0024 0025 0026	number H Serial number L SV SPLL	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or</li> </ul>
0024 0025 0026 0027	number H Serial number L SV SPLL SPHL	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1).</li> </ul>
0024 0025 0026 0027 0027	number H Serial number L SV SPLL SPHL Reserved	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in LyPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or the input type selected in LyPE (see Table 1).</li> <li>Internal use.</li> </ul>
0024 0025 0026 0027	number H Serial number L SV SPLL SPHL	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in ŁYPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or the input type selected in ŁYPE (see Table 1).</li> <li>Internal use.</li> <li>PV offset</li> </ul>
0024 0025 0026 0027 0027 0028 0029	number H Serial number L SV SPLL SPHL Reserved oFFS	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in LyPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or the input type selected in LyPE (see Table 1).</li> <li>Internal use.</li> <li>PV offset</li> <li>Range: from SPLL to SPHL.</li> </ul>
0024 0025 0026 0027 0027	number H Serial number L SV SPLL SPHL Reserved	<ul> <li>8 → Select remote SP. 9 → Ramp and soak hold.</li> <li>10 → Enable ramp and soak profile 1.</li> <li>Serial Number High (Upper display).</li> <li>Range: 0 to 9999. Read only</li> <li>Serial Number Low (Lower display).</li> <li>Range: 0 to 9999. Read only</li> <li>Control Setpoint (Prompt Setpoint).</li> <li>Range: from SPLL to SPHL.</li> <li>Setpoint Low limit.</li> <li>Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL.</li> <li>Setpoint High limit.</li> <li>Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1).</li> <li>Internal use.</li> <li>PV offset</li> <li>Range: from SPLL to SPHL.</li> </ul>
0024 0025 0026 0027 0027 0028 0029	number H Serial number L SV SPLL SPHL Reserved oFFS	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL PV decimal point position Range: 0 to 3
0024 0025 0026 0027 0028 0029 0030	number H Serial number L SV SPLL SPHL Reserved oFF 5 dPPo	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000
0024 0025 0026 0027 0027 0028 0029	number H Serial number L SV SPLL SPHL Reserved oFFS	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint.
0024 0025 0026 0027 0028 0029 0029	number H Serial number L SV SPLL SPHL Reserved oFF 5 dPPo	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint.
0024 0025 0026 0027 0028 0029 0029	number H Serial number L SV SPLL SPHL Reserved oFF 5 dPPo	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differentia alarm or SPLL - SPLM for differential alarm
0024 0025 0026 0027 0028 0029 0029	number H Serial number L SV SPLL SPHL Reserved oFF 5 dPPo	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differentia
0024 0025 0026 0027 0027 0028 0029 0030	number H Serial number L SV SPLL SPHL Reserved oFFS dPPo SPA 1	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in ±9FE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in ±9FE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: The minimum value is at SPLL for non-differentia alarm or SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm of at SPHL - SPLL for differential alarm.
0024 0025 0026 0027 0027 0028 0029 0030 0031	number H Serial number L SV SPLL SPHL Reserved OFF S dPPo SPA 1	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLM for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1.
0024 0025 0026 0027 0027 0028 0029 0030 0031	number H Serial number L SV SPLL SPHL Reserved OFFS dPPo SPA 1 SPA2 SPA2 SPA3	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: The minimum value is at SPLL for non-differentia alarm or SPLL - SPLM for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR I. Alarm 3 Setpoint. Range: same as in SPR I.
0024 0025 0026 0027 0027 0028 0029 0030 0031 0031	number H Serial number L SV SPLL SPHL Reserved OFFS dPPo SPA 1 SPA2 SPA3 SPA4	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: The minimum value is at SPLL for non-differentia alarm or SPLL - SPLM for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR I. Alarm 4 Setpoint. Range: same as in SPR I.
0024 0025 0026 0027 0027 0028 0029 0030 0031	number H Serial number L SV SPLL SPHL Reserved OFFS dPPo SPA 1 SPA2 SPA2 SPA3	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in ±9PE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in ±9PE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: The minimum value is at SPLL for non-differentia alarm of SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm of at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 4 Setpoint. Range: 0 to 8
0024 0025 0026 0027 0027 0028 0029 0030 0031 0031	number H Serial number L SV SPLL SPHL Reserved OFFS dPPo SPA 1 SPA2 SPA3 SPA4	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLM for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 4 Setpoint. Range: 0 to 8 0→ofF; 1→ IErr; 2→rS; 3→rFR 1;
0024 0025 0026 0027 0027 0028 0029 0030 0031 0031	number H Serial number L SV SPLL SPHL Reserved OFFS dPPo SPA 1 SPA2 SPA3 SPA4	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in ŁYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in ŁYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLM for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 4 Setpoint. Range: 0 to 8 0→oFF; 1→ IErr; 2→r5; 3→rFR 1; 4→Lo; 5→H 1; 6→d IFL; 7→d IFH;
0024 0025 0026 0027 0027 0028 0029 0030 0030 0031 0031 0033 0034 0035	number H Serial number L SV SPLL SPHL SPHL OFFS dPPo SPA 1 SPA 1 SPA2 SPA3 SPA4 F_A 1	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLH for differential alarm Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 3 Setpoint. Range: 0 to 8 0→0FF; 1→ IErr; 2→rS; 3→rFR 1; 4→Lo; 5→H 1; 6→d IFL; 7→d IFH; 8→d IF.
0024 0025 0026 0027 0027 0028 0029 0030 0030 0031 0031 0033 0034 0035	number H Serial number L SV SPLL SPHL SPHL APPo SPA 1 SPA 1 SPA2 SPA3 SPA4 FJA 1	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 4 Setpoint. Range: 0 to 8 0→off; 1→ IErr; 2→r; 3→rFR 1; 4→Lo; 5→H 1; 6→d IFL; 7→d IFH; 8→d IF. Alarm 2 Function. Range: same as in FUR 1.
0024 0025 0026 0027 0027 0028 0029 0030 0030 0031 0031 0033 0034 0035	number H Serial number L SV SPLL SPHL SPHL OFFS dPPo SPA 1 SPA 1 SPA2 SPA3 SPA4 F_A 1 F_A 2 F_A3	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 3 Setpoint. Range: 0 to 8 0→off; 1→ IErr; 2→r; 3→rFR 1; 4→Lo; 5→H 1; 6→d IFL; 7→d IFH; 8→d IF. Alarm 2 Function. Range: same as in FUR 1. Alarm 3 Function. Range: same as in FUR 1.
0024 0025 0026 0027 0027 0028 0029 0030 0030 0031 0031 0033 0034 0035	number H Serial number L SV SPLL SPHL SPHL APPo SPA 1 SPA 1 SPA2 SPA3 SPA4 FJA 1	8 → Select remote SP. 9 → Ramp and soak hold. 10 → Enable ramp and soak profile 1. Serial Number High (Upper display). Range: 0 to 9999. Read only Serial Number Low (Lower display). Range: 0 to 9999. Read only Control Setpoint (Prompt Setpoint). Range: from SPLL to SPHL. Setpoint Low limit. Range: minimum value depends on the input type selected in LYPE (see Table 1) to SPHL. Setpoint High limit. Range: minimum value is SPLL and maximum depends or the input type selected in LYPE (see Table 1). Internal use. PV offset Range: from SPLL to SPHL. PV decimal point position Range: 0 to 3 0→0.000; 1→00.00; 2→000.0; 3→0000 Alarm 1 Setpoint. Range: The minimum value is at SPLL for non-differential alarm or SPLL - SPLH for differential alarm The maximum value is at SPHL for non-differential alarm or at SPHL - SPLL for differential alarm. Alarm 2 Setpoint. Range: same as in SPR 1. Alarm 4 Setpoint. Range: 0 to 8 0→off; 1→ IErr; 2→r; 3→rFR 1; 4→Lo; 5→H 1; 6→d IFL; 7→d IFH; 8→d IF. Alarm 2 Function. Range: same as in FUR 1.

0040	Kyrs	Alarm 2 Hysteresis. Range: same as in HYR I.
0041	HYR3	Alarm 3 Hysteresis. Range: same as in HYR I.
0042	Kyry	Alarm 4 Hysteresis. Range: same as in HYR I.
0043	FAbe	PV input type Range: 0 to 22. See operation manual.
0044	Rddr	Communication slave address
0045	bRud	Range: 1 to 247 Communication Baud-Rate. Range: 0 to 4
	_	0→1200;1→2400;2→4800;3→9600; 4→19200
0046 0047	Ruto	Control Mode. Range: 0→manual; 1→automatic. Enable control. Range: 0→no; 1→yes.
0048	Rct	Control action. Range: 0->direct; 1->reverse.
0049	REun	Auto tune enable. Range: $0 \rightarrow$ no; $1 \rightarrow$ yes.
0050	BLR I	Alarm 1 power-up inhibit. Range: 0→no; 1→yes.
0051	PT BT	Alarm 2 power-up inhibit Range: same as in <b>bLR I</b> .
0052	LA3	Alarm 3 power-up inhibit
0053	6LA4	Range: same as in <b>bLR I</b> . Alarm 4 power-up inhibit
0054		Range: same as in <b>bLR I</b> .
0054	Key	Key press remote action. Range: 0 to 9 1 $\rightarrow$ [; 2 $\rightarrow$ [; 4 $\rightarrow$ ]; 8 $\rightarrow$ [sec; 9 $\rightarrow$ ]sec e $\bigcirc$ .
0055	rSLL	Remote Setpoint Low limit
		Range: Minimum value depends on the input type selected in <b>LYPE</b> , and maximum value is in <b>r SHL</b> .
0056	r SHL	Remote Setpoint High limit
		Range: Minimum value is in r5LL, and maximum depends
0057	1- 1	on the input type selected in <b>LYPE</b> .
0057	lo I	IO 1 Function. Range: 0 to 5 Refer to operation manual for more details.
0058	1o 2	IO 2 Function. Range: 0 to 5
0059	lo 3	Refer to operation manual for more details. IO 3 Function. Range: 0 to 10
0060	10 4	Refer to operation manual for more details. IO 4 Function. Range: 0 to 10
		Refer to operation manual for more details.
0061	<i>lo</i> 5	IO 5 Function. Range: 0 to 16 Refer to operation manual for more details.
0062	RIE I	Alarm 1 Time 1. Range: 0 to 6500s
0063	R IE2	Refer to operation manual for more details. Alarm 1 Time 2 (in seconds)
0004		Range: same as in <b>A IL I</b> .
0064	85F 1	Alarm 2 Time 1 (in seconds) Range: same as in <b>A IL I</b> .
0065	82F5	Alarm 2 Time 2 (in seconds) Range: same as in <b>A IL I</b> .
0066	SFSE	Soft-Start time (in seconds)
0067	unit	Range: 0 to 9999 Temperature unit. Range: 0 to 1
		$0 \rightarrow^{\circ} C; 1 \rightarrow^{\circ} F.$
0068	<u>ь IRS</u>	Bias. Range: -100 to +100%.
0069	lo 6	<b>N2000 only.</b> IO 6 Function. Allowed values: 0, 6, 7, 8, 9 and 10.
		Refer to operation manual for more details.
0070	R&S	Ramp and Soak segment being executed (read only).
0071	Segment	Range: 0 to 9 Ramp and Soak segment to be viewed or edited.
		Range: 1 to 20
0072	Prn	Ramp and Soak segment to be executed Range: 0 to 20
0073	Remaining	Indicates the remaining time of the Ramp and Soak
0074	time R&S	segment. Square root of a linear input.
0075	Colibration	Range: 0->Disable;1->Enable.
0075	Calibration PV Low	Enter the low input value currently applied in the PV input for calibration purposes.
0076	Calibration PV High	Enter the high input value currently applied in the PV input for calibration purposes.
0077	Calib. remote	Enter the low input value currently applied in the remote
0070	SP Low	setpoint input for calibration purposes.
0078	Calib. remote SP High	Enter the high input value currently applied in the remote setpoint input for calibration purposes.
0079	rtLL	Retransmission low limit
0080	rthL	Retransmission high limit
0081	FLSh	Enables the top display blinking as a function of the
		selected alarm.
		Range: 0 to 15. Check instruction manual for further details.
0000	A3F I	Time 1 of the alarm 3 timing (in seconds)
0082		
0082	8322	Range: same as in <b>R IŁ I</b> . Time 2 of the alarm 3 timing (in seconds)

0084	R4F 1	Time 1 of the alarm 4 timing (in seconds)
0085	8465	Range: same as in <b>fl lt l</b> . Time 2 of the alarm 4 timing (in seconds)
0086	rStr	Range: same as in <b>A It2</b> . Restores original default calibration.
0000	רשבר	Range: 0 to 1; 0-> do not restore; 1-> restore calibration
0087	-	Internal use
0088	Prot	Password protection level. Range: 1 to 7.
		Check instruction manual for further details.
0089	Prty	Serial communication parity. Range: 0 to 2.
		0-> no parity; 1 - > even parity; 2 - >odd parity;
0090	Reserved	Internal use
0091 0092	Reserved Reserved	Internal use
0093	Reserved	Internal use
0094	Reserved	Internal use
0095	Reserved Reserved	Internal use
0097	Reserved	Internal use
0098	ErSP	Enables remote setpoint. Range: 0 to 1.
		0 - > Remote setpoint depends on I/O configuration
0000	Deserved	1 - > Force remote setpoint
0099 0100	Reserved	Internal use Segment 1 Event of R&S Program 1.
		Range: 0 to 15. Check table 6 of the instruction manual.
0101	PE2	Segment 2 Event of R&S Program 1. Range: same as in <i>PE</i> /
0102	PE 3	Segment 3 Event of R&S Program 1.
0103	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 1.
0105	FEN	Range: same as in <b>PE I</b> .
0104	PES	Segment 5 Event of R&S Program 1.
0105	РЕБ	Range: same as in <b>PE I</b> . Segment 6 Event of R&S Program 1.
0400		Range: same as in <b>PE I</b> .
0106	PE 7	Segment 7 Event of R&S Program 1. Range: same as in <b>PE I</b> .
0107	PEB	Segment 8 Event of R&S Program 1.
0108	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 1.
0109		Range: same as in PE I. Segment 1 Event of R&S Program 2.
0109	PE I	Range: same as in <b>PE I</b> of Program 1.
0110	PE2	Segment 2 Event of R&S Program 2. Range: same as in <b>PE I</b> .
0111	PE 3	Segment 3 Event of R&S Program 2.
0112	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 2.
0112	רבי	Range: same as in <b>PE I</b> .
0113	PES	Segment 5 Event of R&S Program 2.
0114	PE6	Range: same as in <b>PE I</b> . Segment 6 Event of R&S Program 2.
		Range: same as in <b>PE I</b> .
0115	PEI	Segment 7 Event of R&S Program 2. Range: same as in <b>PE I</b> .
0116	PE8	Segment 8 Event of R&S Program 2.
0117	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 2.
		Range: same as in <b>PE I</b> .
0119	PE I	Segment 1 Event of R&S Program 3. Range: same as in <b>PE I</b> of Program 1.
0120	PE2	Segment 2 Event of R&S Program 3.
0118	PE3	Range: same as in <b>PE I</b> . Segment 3 Event of R&S Program 3.
UIIÖ		Range: same as in <b>PE I</b> .
0121	PEH	Segment 4 Event of R&S Program 3.
0122	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 3.
		Range: same as in <b>PE I</b> .
0123	PE6	Segment 6 Event of R&S Program 3. Range: same as in <b>PE I</b> .
0124	PE٦	Segment 7 Event of R&S Program 3.
0125	PE8	Range: same as in <b>PE I</b> . Segment 8 Event of R&S Program 3.
0120		Range: same as in <b>PE I</b> .
0126	PE9	Segment 9 Event of R&S Program 3.
0127	PE I	Range: same as in <b>PE I</b> . Segment 1 Event of R&S Program 4.
		Range: same as in <b>PE I</b> of Program 1.

0128         PE2         Segment 2 Event of R&S Program 4. Range: same as in PE I.           0129         PE3         Segment 3 Event of R&S Program 4. Range: same as in PE I.           0130         PE4         Segment 4 Event of R&S Program 4. Range: same as in PE I.           0131         PE5         Segment 5 Event of R&S Program 4. Range: same as in PE I.           0132         PE6         Segment 7 Event of R&S Program 4. Range: same as in PE I.           0133         PE7         Segment 7 Event of R&S Program 4. Range: same as in PE I.           0134         PE8         Segment 7 Event of R&S Program 4. Range: same as in PE I.           0135         PE9         Segment 8 Event of R&S Program 4. Range: same as in PE I.           0136         PE1         Segment 1 Event of R&S Program 4. Range: same as in PE I.           0137         PE2         Segment 1 Event of R&S Program 5. Range: same as in PE I.           0138         PE3         Segment 2 Event of R&S Program 5. Range: same as in PE I.           0139         PE4         Segment 4 Event of R&S Program 5. Range: same as in PE I.           0140         PE5         Segment 6 Event of R&S Program 5. Range: same as in PE I.           0140         PE5         Segment 7 Event of R&S Program 5. Range: same as in PE I.           0141         PE6         Segment 7 Event of R&S Program 5. Range: same as in PE I.	
Range: same as in PE I.           0130         PE4         Segment 4 Event of R&S Program 4. Range: same as in PE I.           0131         PE5         Segment 5 Event of R&S Program 4. Range: same as in PE I.           0132         PE6         Segment 6 Event of R&S Program 4. Range: same as in PE I.           0133         PE1         Segment 7 Event of R&S Program 4. Range: same as in PE I.           0134         PE8         Segment 7 Event of R&S Program 4. Range: same as in PE I.           0135         PE9         Segment 9 Event of R&S Program 4. Range: same as in PE I.           0136         PE I         Segment 1 Event of R&S Program 4. Range: same as in PE I.           0136         PE I         Segment 2 Event of R&S Program 5. Range: same as in PE I.           0137         PE2         Segment 2 Event of R&S Program 5. Range: same as in PE I.           0138         PE3         Segment 4 Event of R&S Program 5. Range: same as in PE I.           0140         PE5         Segment 5 Event of R&S Program 5. Range: same as in PE I.           0140         PE5         Segment 6 Event of R&S Program 5. Range: same as in PE I.           0141         PE6         Segment 7 Event of R&S Program 5. Range: same as in PE I.           0142         PE1         Segment 8 Event of R&S Program 5. Range: same as in PE I.           0143         PE8	
0130 <b>PE4</b> Segment 4 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0131 <b>PE5</b> Segment 5 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0132 <b>PE6</b> Segment 6 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0133 <b>PE1</b> Segment 7 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0133 <b>PE3</b> Segment 8 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0134 <b>PE8</b> Segment 8 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0135 <b>PE9</b> Segment 1 Event of R&S Program 4. Range: same as in <b>PE</b> 1.           0136 <b>PE 1</b> Segment 1 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0137 <b>PE2</b> Segment 2 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0138 <b>PE3</b> Segment 3 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0139 <b>PE4</b> Segment 5 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0140 <b>PE5</b> Segment 6 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0141 <b>PE6</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0142 <b>PE 1</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> 1.           0143 <b>PE8</b> Se	
Range: same as in PE I.0131PESSegment 5 Event of R&S Program 4. Range: same as in PE I.0132PESSegment 6 Event of R&S Program 4. Range: same as in PE I.0133PE ISegment 7 Event of R&S Program 4. Range: same as in PE I.0134PEBSegment 8 Event of R&S Program 4. Range: same as in PE I.0135PE9Segment 9 Event of R&S Program 4. Range: same as in PE I.0136PE ISegment 1 Event of R&S Program 5. Range: same as in PE I of Program 1.0137PE2Segment 3 Event of R&S Program 5. Range: same as in PE I.0138PE3Segment 4 Event of R&S Program 5. Range: same as in PE I.0139PE4Segment 5 Event of R&S Program 5. Range: same as in PE I.0140PE5Segment 6 Event of R&S Program 5. Range: same as in PE I.0141PE6Segment 7 Event of R&S Program 5. Range: same as in PE I.0142PE ISegment 7 Event of R&S Program 5. Range: same as in PE I.0143PE8Segment 7 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 8 Event of R&S Program 5. Range: same as in PE I.0143PE8Segment 7 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 1 Event of R&S Program 5. Range: same as in PE I.0145PE ISegment 1 Event of R&S Program 6. Range: same as in PE I.0146PE2Segment 2 Event o	
Range: same as in PE I.0132PESSegment 6 Event of R&S Program 4. Range: same as in PE I.0133PE 7Segment 7 Event of R&S Program 4. Range: same as in PE I.0134PE8Segment 8 Event of R&S Program 4. Range: same as in PE I.0135PE9Segment 9 Event of R&S Program 4. Range: same as in PE I.0136PE ISegment 1 Event of R&S Program 5. Range: same as in PE I.0137PE2Segment 2 Event of R&S Program 5. Range: same as in PE I.0138PE3Segment 3 Event of R&S Program 5. Range: same as in PE I.0139PE4Segment 4 Event of R&S Program 5. Range: same as in PE I.0140PE5Segment 6 Event of R&S Program 5. Range: same as in PE I.0141PE5Segment 7 Event of R&S Program 5. Range: same as in PE I.0142PE7Segment 6 Event of R&S Program 5. Range: same as in PE I.0143PE8Segment 7 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 7 Event of R&S Program 5. Range: same as in PE I.0143PE8Segment 9 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 9 Event of R&S Program 5. Range: same as in PE I.0145PE ISegment 1 Event of R&S Program 6. Range: same as in PE I.0146PE2Segment 2 Event of R&S Program 6. Range: same as in PE I.	
0132 <b>PE5</b> Segment 6 Event of R&S Program 4. Range: same as in <b>PE</b> 1.         0133 <b>PE1</b> Segment 7 Event of R&S Program 4. Range: same as in <b>PE</b> 1.         0134 <b>PE8</b> Segment 8 Event of R&S Program 4. Range: same as in <b>PE</b> 1.         0135 <b>PE9</b> Segment 9 Event of R&S Program 4. Range: same as in <b>PE</b> 1.         0136 <b>PE1</b> Segment 1 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0137 <b>PE2</b> Segment 2 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0138 <b>PE3</b> Segment 3 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0138 <b>PE3</b> Segment 4 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0139 <b>PE4</b> Segment 4 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0140 <b>PE5</b> Segment 6 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0141 <b>PE6</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0142 <b>PE1</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0143 <b>PE8</b> Segment 8 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0144 <b>PE9</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE</b> 1.         0145 <b>PE1</b> Segment 1 Event of R&S Program 6. Range: same as in <b>PE</b> 1.	
Range: same as in PE I.0133PETSegment 7 Event of R&S Program 4. Range: same as in PE I.0134PEBSegment 8 Event of R&S Program 4. Range: same as in PE I.0135PE9Segment 9 Event of R&S Program 4. Range: same as in PE I.0136PE ISegment 1 Event of R&S Program 5. Range: same as in PE I.0137PE2Segment 2 Event of R&S Program 5. Range: same as in PE I.0138PE3Segment 3 Event of R&S Program 5. Range: same as in PE I.0139PE4Segment 4 Event of R&S Program 5. Range: same as in PE I.0140PE5Segment 5 Event of R&S Program 5. Range: same as in PE I.0141PE5Segment 7 Event of R&S Program 5. Range: same as in PE I.0142PETSegment 7 Event of R&S Program 5. Range: same as in PE I.0142PETSegment 7 Event of R&S Program 5. Range: same as in PE I.0143PE9Segment 9 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 9 Event of R&S Program 5. Range: same as in PE I.0145PE ISegment 1 Event of R&S Program 6. Range: same as in PE I.0146PE2Segment 2 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in PE 1.0134PEBSegment 8 Event of R&S Program 4. Range: same as in PE 1.0135PE9Segment 9 Event of R&S Program 4. Range: same as in PE 1.0136PE 1Segment 1 Event of R&S Program 5. Range: same as in PE 1 of Program 1.0137PE2Segment 2 Event of R&S Program 5. Range: same as in PE 1.0138PE3Segment 3 Event of R&S Program 5. Range: same as in PE 1.0139PE4Segment 4 Event of R&S Program 5. Range: same as in PE 1.0140PE5Segment 5 Event of R&S Program 5. Range: same as in PE 1.0141PE6Segment 6 Event of R&S Program 5. Range: same as in PE 1.0141PE6Segment 7 Event of R&S Program 5. Range: same as in PE 1.0142PE7Segment 8 Event of R&S Program 5. Range: same as in PE 1.0143PE8Segment 8 Event of R&S Program 5. Range: same as in PE 1.0144PE9Segment 9 Event of R&S Program 5. Range: same as in PE 1.0145PE 1Segment 1 Event of R&S Program 6. Range: same as in PE 1.0146PE2Segment 2 Event of R&S Program 6. Range: same as in PE 1.	
0134 <b>PEB</b> Segment 8 Event of R&S Program 4. Range: same as in <b>PE</b> I.         0135 <b>PE9</b> Segment 9 Event of R&S Program 4. Range: same as in <b>PE</b> I.         0136 <b>PE</b> I       Segment 1 Event of R&S Program 5. Range: same as in <b>PE</b> I of Program 1.         0137 <b>PE2</b> Segment 2 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0138 <b>PE3</b> Segment 3 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0139 <b>PE4</b> Segment 4 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0140 <b>PE5</b> Segment 5 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0140 <b>PE5</b> Segment 6 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0141 <b>PE6</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0142 <b>PE7</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0143 <b>PE8</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0144 <b>PE9</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0145 <b>PE I</b> Segment 1 Event of R&S Program 5. Range: same as in <b>PE</b> I.         0146 <b>PE2</b> Segment 1 Event of R&S Program 6. Range: same as in <b>PE</b> I.	
Range: same as in PE I.0135PE9Segment 9 Event of R&S Program 4. Range: same as in PE I.0136PE ISegment 1 Event of R&S Program 5. Range: same as in PE I of Program 1.0137PE2Segment 2 Event of R&S Program 5. Range: same as in PE I.0138PE3Segment 3 Event of R&S Program 5. Range: same as in PE I.0139PE4Segment 4 Event of R&S Program 5. Range: same as in PE I.0140PE5Segment 5 Event of R&S Program 5. Range: same as in PE I.0141PE5Segment 6 Event of R&S Program 5. Range: same as in PE I.0142PE7Segment 7 Event of R&S Program 5. Range: same as in PE I.0143PE8Segment 7 Event of R&S Program 5. Range: same as in PE I.0144PE9Segment 8 Event of R&S Program 5. Range: same as in PE I.0145PE ISegment 1 Event of R&S Program 5. Range: same as in PE I.0146PE2Segment 1 Event of R&S Program 6. Range: same as in PE I.0146PE2Segment 1 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in PE I.0136PE ISegment 1 Event of R&S Program 5. Range: same as in PE I of Program 1.0137PE2Segment 2 Event of R&S Program 5. Range: same as in PE I.0138PE3Segment 3 Event of R&S Program 5. Range: same as in PE I.0139PE4Segment 4 Event of R&S Program 5. 	
0136       PE I       Segment 1 Event of R&S Program 5. Range: same as in PE I of Program 1.         0137       PE2       Segment 2 Event of R&S Program 5. Range: same as in PE I.         0138       PE3       Segment 3 Event of R&S Program 5. Range: same as in PE I.         0139       PE4       Segment 4 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 5 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 6 Event of R&S Program 5. Range: same as in PE I.         0141       PE6       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0142       PE1       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0143       PE8       Segment 8 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 9 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 1 Event of R&S Program 5. Range: same as in PE I.         0145       PE I       Segment 1 Event of R&S Program 6. Range: same as in PE I.         0146       PE2       Segment 2 Event of R&S Program 6. Range: same as in PE I.	
0137       PE2       Segment 2 Event of R&S Program 5. Range: same as in PE I.         0138       PE3       Segment 3 Event of R&S Program 5. Range: same as in PE I.         0139       PE4       Segment 4 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 5 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 6 Event of R&S Program 5. Range: same as in PE I.         0141       PE6       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0142       PE1       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0143       PE8       Segment 8 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 9 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 1 Event of R&S Program 5. Range: same as in PE I.         0145       PE I       Segment 1 Event of R&S Program 6. Range: same as in PE I.         0146       PE2       Segment 2 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in PE I.         0138       PE3       Segment 3 Event of R&S Program 5. Range: same as in PE I.         0139       PE4       Segment 4 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 5 Event of R&S Program 5. Range: same as in PE I.         0141       PE5       Segment 6 Event of R&S Program 5. Range: same as in PE I.         0141       PE6       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0142       PE1       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0143       PE8       Segment 8 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 9 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 1 Event of R&S Program 5. Range: same as in PE I.         0145       PE I       Segment 1 Event of R&S Program 6. Range: same as in PE I.         0146       PE2       Segment 2 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in PE I.         0139       PEY       Segment 4 Event of R&S Program 5. Range: same as in PE I.         0140       PE5       Segment 5 Event of R&S Program 5. Range: same as in PE I.         0141       PE6       Segment 6 Event of R&S Program 5. Range: same as in PE I.         0142       PE1       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0143       PE8       Segment 8 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 9 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 1 Event of R&S Program 5. Range: same as in PE I.         0145       PE I       Segment 1 Event of R&S Program 6. Range: same as in PE I.         0146       PE2       Segment 2 Event of R&S Program 6. Range: same as in PE I.	
0139       PEY       Segment 4 Event of R&S Program 5. Range: same as in PE I.         0140       PES       Segment 5 Event of R&S Program 5. Range: same as in PE I.         0141       PE6       Segment 6 Event of R&S Program 5. Range: same as in PE I.         0142       PE7       Segment 7 Event of R&S Program 5. Range: same as in PE I.         0143       PE8       Segment 8 Event of R&S Program 5. Range: same as in PE I.         0144       PE9       Segment 9 Event of R&S Program 5. Range: same as in PE I.         0145       PE I       Segment 1 Event of R&S Program 6. Range: same as in PE I.         0146       PE2       Segment 2 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in PE I.         0140       PES         Segment 5 Event of R&S Program 5.         Range: same as in PE I.         0141       PES         Segment 6 Event of R&S Program 5.         Range: same as in PE I.         0142       PE 7         Segment 7 Event of R&S Program 5.         Range: same as in PE I.         0143       PEB         Segment 8 Event of R&S Program 5.         Range: same as in PE I.         0144       PE9         Segment 9 Event of R&S Program 5.         Range: same as in PE I.         0144       PE9         Segment 1 Event of R&S Program 6.         Range: same as in PE I.         0145       PE I         Segment 1 Event of R&S Program 6.         Range: same as in PE I.         0146       PE2         Segment 2 Event of R&S Program 6.         Range: same as in PE I.	
Range: same as in PE 1.         0141       PES       Segment 6 Event of R&S Program 5.         Range: same as in PE 1.       Segment 7 Event of R&S Program 5.         0142       PE 7       Segment 7 Event of R&S Program 5.         0143       PE8       Segment 8 Event of R&S Program 5.         0144       PE9       Segment 9 Event of R&S Program 5.         0145       PE 1       Segment 1 Event of R&S Program 6.         0146       PE2       Segment 2 Event of R&S Program 6.         0146       PE2       Segment 2 Event of R&S Program 6.	
0141 <b>PE6</b> Segment 6 Event of R&S Program 5. Range: same as in <b>PE 1</b> .           0142 <b>PE1</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE 1</b> .           0143 <b>PE8</b> Segment 8 Event of R&S Program 5. Range: same as in <b>PE 1</b> .           0144 <b>PE9</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE 1</b> .           0145 <b>PE 1</b> Segment 1 Event of R&S Program 6. Range: same as in <b>PE 1</b> .           0146 <b>PE2</b> Segment 2 Event of R&S Program 6. Range: same as in <b>PE 1</b> .	
0142 <b>PE 7</b> Segment 7 Event of R&S Program 5. Range: same as in <b>PE 1</b> .         0143 <b>PE8</b> Segment 8 Event of R&S Program 5. Range: same as in <b>PE 1</b> .         0144 <b>PE9</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE 1</b> .         0145 <b>PE 1</b> Segment 1 Event of R&S Program 6. Range: same as in <b>PE 1</b> .         0146 <b>PE2</b> Segment 2 Event of R&S Program 6. Range: same as in <b>PE 1</b> .	
Range: same as in PE I.         0143       PEB         Segment 8 Event of R&S Program 5.         Range: same as in PE I.         0144       PEG         Segment 9 Event of R&S Program 5.         Range: same as in PE I.         0145       PE I         Segment 1 Event of R&S Program 6.         Range: same as in PE I.         0146       PE2         Segment 2 Event of R&S Program 6.         Range: same as in PE I.	
Range: same as in PE I.         0144       PE9         Segment 9 Event of R&S Program 5.         Range: same as in PE I.         0145       PE I         Segment 1 Event of R&S Program 6.         Range: same as in PE I.         0146       PE2         Segment 2 Event of R&S Program 6.         Range: same as in PE I.	
0144 <b>PE9</b> Segment 9 Event of R&S Program 5. Range: same as in <b>PE I</b> .         0145 <b>PE I</b> Segment 1 Event of R&S Program 6. Range: same as in <b>PE I</b> .         0146 <b>PE2</b> Segment 2 Event of R&S Program 6. Range: same as in <b>PE I</b> .	
Range: same as in PE I.       0145     PE I       Segment 1 Event of R&S Program 6.       Range: same as in PE I.       0146     PE2       Segment 2 Event of R&S Program 6.       Range: same as in PE I.	
Range: same as in PE I.       0146     PE2       Segment 2 Event of R&S Program 6.       Range: same as in PE I.	
0146 PE2 Segment 2 Event of R&S Program 6. Range: same as in PE I.	
Range: same as in <b>PE I</b> .	
0148 <b>PEY</b> Segment 4 Event of R&S Program 6. Range: same as in <b>PE I</b> .	
0149 <b>PES</b> Segment 5 Event of R&S Program 6.	
Range: same as in <b>PE I</b> .	
0150 <b>PE5</b> Segment 6 Event of R&S Program 6. Range: same as in <b>PE I</b> .	
0151 <b>PE</b> Segment 7 Event of R&S Program 6.	
Range: same as in PE I.       0152     PEB       Segment 8 Event of R&S Program 6.	
Range: same as in <b>PE I</b> .	
0153 <b>PE9</b> Segment 9 Event of R&S Program 6. Range: same as in <b>PE 1</b> .	
0154 <b>PE I</b> Segment 1 Event of R&S Program 7.	
Range: same as in <b>PE I</b> for Program 1.           0155 <b>PE2</b> Segment 2 Event of R&S Program 7.	
Range: same as in PE I.	
0156 <b>PE3</b> Segment 3 Event of R&S Program 7. Range: same as in <b>PE 1</b> .	]
0157 <b>PEY</b> Segment 4 Event of R&S Program 7.	$\neg$
Range: same as in <b>PE I</b> .	
0158 <b>PES</b> Segment 5 Event of R&S Program 7. Range: same as in <b>PE I</b> .	
0159 <b>PE6</b> Segment 6 Event of R&S Program 7.	
Range: same as in PE I.       0160     PE 7       Segment 7 Event of R&S Program 7.	
Range: same as in PE I.	
0161 <b>PEB</b> Segment 8 Event of R&S Program 7. Range: same as in <b>PE I</b> .	
0162 <b>PES</b> Segment 9 Event of R&S Program 7.	
Range: same as in <b>PE I</b> .           0163 <b>PE I</b> Segment 1 Event of R&S Program 8.	
Range: same as in <b>PE I</b> of Program 1.	
0164 <b>PE2</b> Segment 2 Event of R&S Program 8.	]
Range: same as in PE I.       0165     PE3       Segment 3 Event of R&S Program 8.	
Range: same as in PE I.	
0166 <b>PEY</b> Segment 4 Event of R&S Program 8. Range: same as in <b>PE 1</b> .	
0167 PES Segment 5 Event of R&S Program 8.	
Range: same as in PE I.       0168     PE6       Segment 6 Event of R&S Program 8.	
Range: same as in <b>PE I</b> .	

0169	PEJ	Segment 7 Event of R&S Program 8.
0105	1 . 1	Range: same as in <b>PE I</b> .
0170	PE8	Segment 8 Event of R&S Program 8. Range: same as in <b><i>PE</i> I</b> .
0171	PES	Segment 9 Event of R&S Program 8.
0172	PE 1	Range: same as in <b>PE I</b> . Segment 1 Event of R&S Program 9.
	_	Range: same as in <b>PE I</b> of Program 1.
0173	PE2	Segment 2 Event of R&S Program 9. Range: same as in <b><i>PE</i> I</b> .
0174	PE 3	Segment 3 Event of R&S Program 9.
0175	РЕЧ	Range: same as in PE I.         Segment 4 Event of R&S Program 9.
0176	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 9.
		Range: same as in <b>PE I</b> .
0177	PE6	Segment 6 Event of R&S Program 9. Range: same as in <b>PE I</b> .
0178	PE٦	Segment 7 Event of R&S Program 9. Range: same as in <b>PE I</b> .
0179	PE8	Segment 8 Event of R&S Program 9.
0180	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 9.
04.04		Range: same as in <b>PE I</b> . Segment 1 Event of R&S Program 10.
0181	PE I	Range: same as in <b>PE I</b> of Program 1.
0182	PE2	Segment 2 Event of R&S Program 10. Range: same as in <b>PE I</b> .
0183	PE 3	Segment 3 Event of R&S Program 10.
0184	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 10.
0185	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 10.
		Range: same as in <b>PE I</b> .
0186	PE6	Segment 6 Event of R&S Program 10. Range: same as in <b>PE I</b> .
0187	٦ PE	Segment 7 Event of R&S Program 10.
0188	PE8	Range: same as in <b>PE I</b> . Segment 8 Event of R&S Program 10.
0189	PE9	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 10.
		Range: same as in PE I.
0190	PE I	Segment 1 Event of R&S Program 11. Range: same as in <b>PE I</b> of Program 1.
0191	PE2	Segment 2 Event of R&S Program 11. Range: same as in <b>PE I</b> .
0192	PE 3	Segment 3 Event of R&S Program 11.
0193	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 11.
0194	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 11.
		Range: same as in <b>PE I</b> .
0195	PE6	Segment 6 Event of R&S Program 11. Range: same as in <b>PE I</b> .
0196	٦ PE	Segment 7 Event of R&S Program 11. Range: same as in <b>PE I</b> .
0197	PEB	Segment 8 Event of R&S Program 11.
0198	PE9	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 11.
		Range: same as in <b>PE I</b> . Segment 1 Event of R&S Program 12.
0199	PE (	Range: same as in <b>PE I</b> of Program 1.
0200	PE2	Segment 2 Event of R&S Program 12. Range: same as in <b>PE I</b> .
0201	PE 3	Segment 3 Event of R&S Program 12.
0202	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 12.
0203	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 12.
		Range: same as in <b>PE I</b> .
0204	PE6	Segment 6 Event of R&S Program 12. Range: same as in <b>PE I</b> .
0205	PE٦	Segment 7 Event of R&S Program 12.
0206	PEB	Range: same as in <b>PE I</b> . Segment 8 Event of R&S Program 12.
0207	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 12.
		Range: same as in <b>PE I</b> .
0208	PE I	Segment 1 Event of R&S Program 13. Range: same as in <b>PE I</b> of Program 1.
0209	PE2	Segment 2 Event of R&S Program 13. Range: same as in <b>PE I</b> .
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0210	PE 3	Segment 3 Event of R&S Program 13. Range: same as in <b>PE I</b> .
0211	PEY	Segment 4 Event of R&S Program 13.
	055	Range: same as in <b>PE I</b> .
0212	PES	Segment 5 Event of R&S Program 13. Range: same as in <b>PE I</b> .
0213	PE6	Segment 6 Event of R&S Program 13.
0044	06.3	Range: same as in <b>PE I</b> .
0214	PEI	Segment 7 Event of R&S Program 13. Range: same as in <b>PE I</b> .
0215	PE8	Segment 8 Event of R&S Program 13.
0216	PE9	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 13.
0210	<b>FC3</b>	Range: same as in <b>PE I</b> .
0217	PE I	Segment 1 Event of R&S Program 14.
0218	PE2	Range: same as in <b>PE I</b> of Program 1. Segment 2 Event of R&S Program 14.
0210		Range: same as in <b>PE I</b> .
0219	PE3	Segment 3 Event of R&S Program 14.
0220	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 14.
		Range: same as in <b>PE I</b> .
0221	PES	Segment 5 Event of R&S Program 14. Range: same as in <b>PE I</b> .
0222	PE6	Segment 6 Event of R&S Program 14.
0000		Range: same as in <b>PE I</b> .
0223	PEI	Segment 7 Event of R&S Program 14. Range: same as in <b>PE I</b> .
0224	PE8	Segment 8 Event of R&S Program 14.
0225	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 14.
<i>VLL</i> 0		Range: same as in <b>PE I</b> .
0226	PE I	Segment 1 Event of R&S Program 15.
0227	PE2	Range: same as in <b>PE I</b> of Program 1. Segment 2 Event of R&S Program 15.
		Range: same as in <b>PE I</b> .
0228	PE 3	Segment 3 Event of R&S Program 15. Range: same as in <b>PE I</b> .
0229	PEY	Segment 4 Event of R&S Program 15.
0230	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 15.
		Range: same as in <b>PE I</b> .
0231	PE6	Segment 6 Event of R&S Program 15. Range: same as in <b>PE I</b> .
0232	PEI	Segment 7 Event of R&S Program 15.
0233	PE8	Range: same as in <b>PE I</b> . Segment 8 Event of R&S Program 15.
0200		Range: same as in PE I.
0234	PES	Segment 9 Event of R&S Program 15. Range: same as in <b>PE I</b> .
0235	PE I	Segment 1 Event of R&S Program 16.
		Range: same as in <b>PE I</b> of Program 1.
0236	PE2	Segment 2 Event of R&S Program 16. Range: same as in <b>PE I</b> .
0237	PE 3	Segment 3 Event of R&S Program 16.
0238	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 16.
		Range: same as in <b>PE I</b> .
0239	PES	Segment 5 Event of R&S Program 16. Range: same as in <b>PE I</b> .
0240	PE6	Segment 6 Event of R&S Program 16.
0041		Range: same as in PE I.
0241	PE 7	Segment 7 Event of R&S Program 16. Range: same as in <b>PE I</b> .
0242	PE8	Segment 8 Event of R&S Program 16.
0243	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 16.
V270		Range: same as in <b>PE I</b> .
0244	PE I	Segment 1 Event of R&S Program 17. Range: same as in <b>PE I</b> of Program 1.
0245	PE2	Segment 2 Event of R&S Program 17.
0246		Range: same as in <b>PE I</b> .
0246	PE3	Segment 3 Event of R&S Program 17. Range: same as in <b>PE I</b> .
0247	РЕЧ	Segment 4 Event of R&S Program 17.
0248	PES	Range: same as in <b>PE I</b> . Segment 5 Event of R&S Program 17.
		Range: same as in <b>PE I</b> .
0249	PE6	Segment 6 Event of R&S Program 17. Range: same as in <b>PE I</b> .
0250	PE٦	Segment 7 Event of R&S Program 17.
		Range: same as in <b>PE I</b> .

0251	PE8	Segment 8 Event of R&S Program 17.
0252	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 17.
0232	<b>FC3</b>	Range: same as in <b>PE I</b> .
0253	PE I	Segment 1 Event of R&S Program 18.
0254	PE2	Range: same as in <b>PE I</b> of Program 1. Segment 2 Event of R&S Program 18.
0234		Range: same as in <b>PE I</b> .
0255	PE 3	Segment 3 Event of R&S Program 18.
0256	РЕЧ	Range: same as in <b>PE I</b> . Segment 4 Event of R&S Program 18.
0200	_	Range: same as in <b>PE I</b> .
0257	PES	Segment 5 Event of R&S Program 18. Range: same as in <b>PE I</b> .
0258	PES	Segment 6 Event of R&S Program 18.
		Range: same as in <b>PE I</b> .
0259	PEI	Segment 7 Event of R&S Program 18. Range: same as in <b>PE I</b> .
0260	PE8	Segment 8 Event of R&S Program 18.
0001	050	Range: same as in <b>PE I</b> .
0261	PE9	Segment 9 Event of R&S Program 18. Range: same as in <b>PE I</b> .
0262	PE I	Segment 1 Event of R&S Program 19.
0263	PE2	Range: same as in <b>PE i</b> of Program 1. Segment 2 Event of R&S Program 19.
5200		Range: same as in <b>PE I</b> .
0264	PE 3	Segment 3 Event of R&S Program 19. Range: same as in <b>PE I</b> .
0265	РЕЧ	Segment 4 Event of R&S Program 19.
		Range: same as in <b>PE I</b> .
0266	PES	Segment 5 Event of R&S Program 19. Range: same as in <b>PE I</b> .
0267	PE6	Segment 6 Event of R&S Program 19.
0269	PEJ	Range: same as in <b>PE I</b> . Segment 7 Event of R&S Program 19.
0268	PEI	Range: same as in <b>PE I</b> .
0269	PE8	Segment 8 Event of R&S Program 19.
0270	PES	Range: same as in <b>PE I</b> . Segment 9 Event of R&S Program 19.
		Range: same as in <b>PE I</b> .
0271	PE I	Segment 1 Event of R&S Program 20. Range: same as in <b>PE I</b> of Program 1.
0272	PE2	Segment 2 Event of R&S Program 20.
0273	PE 3	Range: same as in <b>PE I</b> . Segment 3 Event of R&S Program 20.
0270	, , ,	Range: same as in PE I.
0274	PEH	Segment 4 Event of R&S Program 20. Range: same as in <b>PE I</b> .
0275	PES	Segment 5 Event of R&S Program 20.
0076	055	Range: same as in <b>PE I</b> .
0276	PE6	Segment 6 Event of R&S Program 20. Range: same as in <b>PE I</b> .
0277	PEJ	Segment 7 Event of R&S Program 20.
0278	PEB	Range: same as in <b>PE I</b> . Segment 8 Event of R&S Program 20.
		Range: same as in <b>PE I</b> .
0279	PE9	Segment 9 Event of R&S Program 20. Range: same as in <b>PE I</b> .
0280	Ptol	R&S Program 1 Tolerance
0281	Ptol	Range: From 0 to ( <b>SPPL</b> - <b>SPLL</b> ). R&S Program 2 Tolerance
		Range: From 0 to (SPPL - SPLL).
0282	Ptol	R&S Program 3 Tolerance Range: From 0 to ( <b>SP#L - SPLL</b> ).
0283	Ptol	R&S Program 4 Tolerance
028.4		Range: From 0 to (SPPL - SPLL).
0284	Ptol	R&S Program 5 Tolerance Range: From 0 to ( <b>SPPL - SPLL</b> ).
0285	Ptol	R&S Program 6 Tolerance
0286	Ptol	Range: From 0 to ( <b>SPPL</b> - <b>SPLL</b> ). R&S Program 7 Tolerance
		Range: From 0 to (SPPL - SPLL).
0287	Ptol	R&S Program 8 Tolerance Range: From 0 to ( <b>SP/L - SPLL</b> ).
0288	Ptol	R&S Program 9 Tolerance
0289	Ptol	Range: From 0 to (SPPL - SPLL). R&S Program 10 Tolerance
5203		Range: From 0 to (SPPL - SPLL).
0290	Ptol	R&S Program 11 Tolerance Range: From 0 to ( <b>5P#L - 5PLL</b> ).
0291	Ptol	R&S Program 12 Tolerance
		Range: From 0 to (5PPL - 5PLL).

0292	Ptol	R&S Program 13 Tolerance	0344	PŁ
		Range: From 0 to (SPPL - SPLL).	0345	PE
0293	Ptol	R&S Program 14 Tolerance	0346	PE
0294	Ptol	Range: From 0 to (SPPL - SPLL). R&S Program 15 Tolerance	0347	PŁ
0234	FCOL	Range: From 0 to (SPPL - SPLL).	0348	PE
0295	Ptol	R&S Program 16 Tolerance	0349	PE
0000	0	Range: From 0 to (SPPL - SPLL).	0350	PE
0296	Ptol	R&S Program 17 Tolerance Range: From 0 to ( <b>SPPL - SPLL</b> ).	0351 0352	PE PE
0297	PtoL	R&S Program 18 Tolerance	0353	PE
	<b>.</b>	Range: From 0 to (SPPL - SPLL).	0354	PE
0298	Ptol	R&S Program 19 Tolerance Range: From 0 to ( <b>SPPL - SPLL</b> ).	0355	PE
0299	PtoL	R&S Program 20 Tolerance	0356	PŁ
		Range: From 0 to (SPPL - SPLL).	0357	PE
0300	LP	R&S Program 1 Link	0358	PE
0301	LP	Range: 0 to 20 R&S Program 2 Link	0359	PE
0001	۲,	Range: 0 to 20	0360	PE PE
0302	LP	R&S Program 3 Link	0362	PE
0303	LP	Range: 0 to 20 R&S Program 4 Link	0363	PE
0303	LF	Range: 0 to 20	0364	PE
0304	LP	R&S Program 5 Link	0365	PŁ
0205		Range: 0 to 20	0366	PE
0305	LP	R&S Program 6 Link Range: 0 to 20	0367	PE
0306	LP	R&S Program 7 Link	0368	PE
0007	_	Range: 0 to 20	0369	PE PE
0307	LP	R&S Program 8 Link Range: 0 to 20	0370	PE
0308	LP	R&S Program 9 Link	0372	PE
		Range: 0 to 20	0373	PE
0309	LP	R&S Program 10 Link	0374	PŁ
0310	LP	Range: 0 to 20 R&S Program 11 Link	0375	
		Range: 0 to 20	0376	PE
0311	LP	R&S Program 12 Link	0377	PE PE
0312	LP	Range: 0 to 20 R&S Program 13 Link	0379	PE
	_	Range: 0 to 20	0380	PE
0313	LP	R&S Program 14 Link	0381	PE
0314	LP	Range: 0 to 20 R&S Program 15 Link	0382	PE
5014		Range: 0 to 20	0383	PE
0315	LP	R&S Program 16 Link	0384	PE
0316	LP	Range: 0 to 20 R&S Program 17 Link	0385	<u>Pt</u> Pt
0010		Range: 0 to 20	0387	PE
0317	LP	R&S Program 18 Link	0388	PE
0219	LP	Range: 0 to 20	0389	PE
0318	L	R&S Program 19 Link Range: 0 to 20	0390	PE
0319	LP	R&S Program 20 Link	0391	PE
0000	<b>.</b>	Range: 0 to 20	0392	PE
0320 0321	<u>PE 1</u> PE2	Time 1 of Program 1. Range: 0 to 9999 minutes.	0393	PE PE
0321	PE2	Time 2 of Program 1. Range: 0 to 9999 minutes. Time 3 of Program 1. Range: 0 to 9999 minutes.	0395	PE
0323	PEY	Time 4 of Program 1. Range: 0 to 9999 minutes.	0396	PE
0324	PES	Time 5 of Program 1. Range: 0 to 9999 minutes.	0397	PE
0325	PE6	Time 6 of Program 1. Range: 0 to 9999 minutes.	0398	PŁ
0326	PET	Time 7 of Program 1. Range: 0 to 9999 minutes.	0399	PE
0327	<u>PE8</u>	Time 8 of Program 1. Range: 0 to 9999 minutes.	0400	PE
0328 0329	PE9 PE1	Time 9 of Program 1. Range: 0 to 9999 minutes. Time 1 of Program 2. Range: 0 to 9999 minutes.	0401	P <u>E</u> PE
0329	PE 1 PE2	Time 1 of Program 2. Range: 0 to 9999 minutes.	0402	PE
0331	PE3	Time 3 of Program 2. Range: 0 to 9999 minutes.	0404	PE
0332	PEY	Time 4 of Program 2. Range: 0 to 9999 minutes.	0405	PE
0333	PES	Time 5 of Program 2. Range: 0 to 9999 minutes.	0406	PE
0334	PEE	Time 6 of Program 2. Range: 0 to 9999 minutes.	0407	PE
0335		Time 7 of Program 2. Range: 0 to 9999 minutes.	0408	PE
0336		Time 8 of Program 2. Range: 0 to 9999 minutes.	0409 410	P <u>E</u>
0337 0338	<u>PE9</u> PE1	Time 9 of Program 2. Range: 0 to 9999 minutes. Time 1 of Program 3. Range: 0 to 9999 minutes.	410	P <u>E</u> PE
0339	PE2	Time 2 of Program 3. Range: 0 to 9999 minutes.	412	PE
0340	PE3	Time 3 of Program 3. Range: 0 to 9999 minutes.	413	PE
0341	PEH	Time 4 of Program 3. Range: 0 to 9999 minutes.	414	PE
0342	PES	Time 5 of Program 3. Range: 0 to 9999 minutes.	415	PE
0343	PEE	Time 6 of Program 3. Range: 0 to 9999 minutes.	416	PŁ

0344 0345 0346 0347 0348 0349 0350	PE 7 PE8 PE9 PE 1	Time 7 of Program 3. Range: 0 to 9999 minutes. Time 8 of Program 3. Range: 0 to 9999 minutes. Time 9 of Program 3. Range: 0 to 9999 minutes. Time 1 of Program 4. Range: 0 to 9999 minutes.
0346 0347 0348 0349	PLS	Time 9 of Program 3. Range: 0 to 9999 minutes.
0347 0348 0349		
0348 0349	<u> </u>	Time 1 of Program 4 Range: 0 to 0000 minutes
0349		Time 1 of Program 4. Range: 0 to 9999 minutes.
	PE2	Time 2 of Program 4. Range: 0 to 9999 minutes.
0350	PE3	Time 3 of Program 4. Range: 0 to 9999 minutes.
	PE4	Time 4 of Program 4. Range: 0 to 9999 minutes.
0351	PES	Time 5 of Program 4. Range: 0 to 9999 minutes.
0352	PES	Time 6 of Program 4. Range: 0 to 9999 minutes.
0353	PE7	Time 7 of Program 4. Range: 0 to 9999 minutes.
0354	PE8	Time 8 of Program 4. Range: 0 to 9999 minutes.
0355	PES	Time 9 of Program 4. Range: 0 to 9999 minutes.
0356	PE I	Time 1 of Program 5. Range: 0 to 9999 minutes.
0357	PEZ	Time 2 of Program 5. Range: 0 to 9999 minutes.
0358	PE3	Time 3 of Program 5. Range: 0 to 9999 minutes.
0359	PEH	Time 4 of Program 5. Range: 0 to 9999 minutes.
0360		Time 5 of Program 5. Range: 0 to 9999 minutes.
0361	<u>PE6</u>	Time 6 of Program 5. Range: 0 to 9999 minutes.
0362	<u> </u>	Time 7 of Program 5. Range: 0 to 9999 minutes.
0363	<u>PE8</u>	Time 8 of Program 5. Range: 0 to 9999 minutes.
0364		Time 9 of Program 5. Range: 0 to 9999 minutes.
0365	<u>PE 1</u>	Time 1 of Program 6. Range: 0 to 9999 minutes.
0366	<u> </u>	Time 2 of Program 6. Range: 0 to 9999 minutes.
0367	PE3	Time 3 of Program 6. Range: 0 to 9999 minutes.
0368	PE4	Time 4 of Program 6. Range: 0 to 9999 minutes.
0369	PES	Time 5 of Program 6. Range: 0 to 9999 minutes.
0370	PE6	Time 6 of Program 6. Range: 0 to 9999 minutes.
0371	PEI	Time 7 of Program 6. Range: 0 to 9999 minutes.
0372	PEB	Time 8 of Program 6. Range: 0 to 9999 minutes.
0373	PES	Time 9 of Program 6. Range: 0 to 9999 minutes.
0374	PE I	Time 1 of Program 7. Range: 0 to 9999 minutes.
0375	PEZ	Time 2 of Program 7. Range: 0 to 9999 minutes.
0376	PE3	Time 3 of Program 7. Range: 0 to 9999 minutes.
0377	PEH	Time 4 of Program 7. Range: 0 to 9999 minutes.
0378	PES	Time 5 of Program 7. Range: 0 to 9999 minutes.
0379		Time 6 of Program 7. Range: 0 to 9999 minutes.
	<u> </u>	
0380	<u>PE7</u>	Time 7 of Program 7. Range: 0 to 9999 minutes.
0381	<u> </u>	Time 8 of Program 7. Range: 0 to 9999 minutes.
0382	<u>Pt9</u>	Time 9 of Program 7. Range: 0 to 9999 minutes.
0383	<u> </u>	Time 1 of Program 8. Range: 0 to 9999 minutes.
0384	<u>PE2</u>	Time 2 of Program 8. Range: 0 to 9999 minutes.
0385	PE3	Time 3 of Program 8. Range: 0 to 9999 minutes.
0386	PE4	Time 4 of Program 8. Range: 0 to 9999 minutes.
0387	<u>PES</u>	Time 5 of Program 8. Range: 0 to 9999 minutes.
0388	PE6	Time 6 of Program 8. Range: 0 to 9999 minutes.
0389	PEJ	Time 7 of Program 8. Range: 0 to 9999 minutes.
0390	PE8	Time 8 of Program 8. Range: 0 to 9999 minutes.
0391	PES	Time 9 of Program 8. Range: 0 to 9999 minutes.
0392	PEI	Time 1 of Program 9. Range: 0 to 9999 minutes.
0393	PEZ	Time 2 of Program 9. Range: 0 to 9999 minutes.
0394	PE3	Time 3 of Program 9. Range: 0 to 9999 minutes.
0395	PEH	Time 4 of Program 9. Range: 0 to 9999 minutes.
0396	PES	Time 5 of Program 9. Range: 0 to 9999 minutes.
0397	PE6	Time 6 of Program 9. Range: 0 to 9999 minutes.
0398		Time 7 of Program 9. Range: 0 to 9999 minutes.
	<u>PE7</u>	
0399	<u> </u>	Time 8 of Program 9. Range: 0 to 9999 minutes.
0400		Time 9 of Program 9. Range: 0 to 9999 minutes.
0401	<u> </u>	Time 1 of Program 10. Range: 0 to 9999 minutes.
0402	<u> </u>	Time 2 of Program 10. Range: 0 to 9999 minutes.
0403	<u>PE3</u>	Time 3 of Program 10. Range: 0 to 9999 minutes.
0404	PEH	Time 4 of Program 10. Range: 0 to 9999 minutes.
0405	PES	Time 5 of Program 10. Range: 0 to 9999 minutes.
0406	PE6	Time 6 of Program 10. Range: 0 to 9999 minutes.
0407	<u> የ</u> ይገ	Time 7 of Program 10. Range: 0 to 9999 minutes.
0408	PE8	Time 8 of Program 10. Range: 0 to 9999 minutes.
0409	PES	Time 9 of Program 10. Range: 0 to 9999 minutes.
410	PEI	Time 1 of Program 11. Range: 0 to 9999 minutes.
411	PEZ	Time 2 of Program 11. Range: 0 to 9999 minutes.
412	PE3	Time 3 of Program 11. Range: 0 to 9999 minutes.
413	PEH	Time 4 of Program 11. Range: 0 to 9999 minutes.
	PES	Time 5 of Program 11. Range: 0 to 9999 minutes.
414	,	
414 415	PE6	Time 6 of Program 11. Range: 0 to 9999 minutes.

	0.0	
417	<u>PE8</u>	Time 8 of Program 11. Range: 0 to 9999 minutes.
418	PES	Time 9 of Program 11. Range: 0 to 9999 minutes.
419	<u>PE 1</u>	Time 1 of Program 12. Range: 0 to 9999 minutes.
420	PE2	Time 2 of Program 12. Range: 0 to 9999 minutes.
421	PE3	Time 3 of Program 12. Range: 0 to 9999 minutes.
422	PEH	Time 4 of Program 12. Range: 0 to 9999 minutes.
423	PES	Time 5 of Program 12. Range: 0 to 9999 minutes.
424	PE6	Time 6 of Program 12. Range: 0 to 9999 minutes.
425	PEJ	Time 7 of Program 12. Range: 0 to 9999 minutes.
426	PEB	Time 8 of Program 12. Range: 0 to 9999 minutes.
427	PES	Time 9 of Program 12. Range: 0 to 9999 minutes.
428	PEI	Time 1 of Program 13. Range: 0 to 9999 minutes.
429	PEZ	Time 2 of Program 13. Range: 0 to 9999 minutes.
430	PE3	Time 3 of Program 13. Range: 0 to 9999 minutes.
431	PEY	Time 4 of Program 13. Range: 0 to 9999 minutes.
432	PES	Time 5 of Program 13. Range: 0 to 9999 minutes.
433	<u> </u>	Time 6 of Program 13. Range: 0 to 9999 minutes.
434	<u>PE7</u>	Time 7 of Program 13. Range: 0 to 9999 minutes.
435	<u>PE8</u>	Time 8 of Program 13. Range: 0 to 9999 minutes.
436	PE9	Time 9 of Program 13. Range: 0 to 9999 minutes.
437	PE I	Time 1 of Program 14. Range: 0 to 9999 minutes.
438	PE2	Time 2 of Program 14. Range: 0 to 9999 minutes.
439	PE3	Time 3 of Program 14. Range: 0 to 9999 minutes.
440	PE4	Time 4 of Program 14. Range: 0 to 9999 minutes.
441	PES	Time 5 of Program 14. Range: 0 to 9999 minutes.
442	PE6	Time 6 of Program 14. Range: 0 to 9999 minutes.
443	PET	Time 7 of Program 14. Range: 0 to 9999 minutes.
444	PEB	Time 8 of Program 14. Range: 0 to 9999 minutes.
445	PES	Time 9 of Program 14. Range: 0 to 9999 minutes.
446	PEI	Time 1 of Program 15. Range: 0 to 9999 minutes.
447	PE2	Time 2 of Program 15. Range: 0 to 9999 minutes.
447	PEB	Time 3 of Program 15. Range: 0 to 9999 minutes.
449	PES	
		Time 4 of Program 15. Range: 0 to 9999 minutes.
450		Time 5 of Program 15. Range: 0 to 9999 minutes.
451	PEE	Time 6 of Program 15. Range: 0 to 9999 minutes.
452	PE7	Time 7 of Program 15. Range: 0 to 9999 minutes.
453	<u>PE8</u>	Time 8 of Program 15. Range: 0 to 9999 minutes.
454	PE9	Time 9 of Program 15. Range: 0 to 9999 minutes.
455	PE I	Time 1 of Program 16. Range: 0 to 9999 minutes.
456	PE2	Time 2 of Program 16. Range: 0 to 9999 minutes.
457	PE3	Time 3 of Program 16. Range: 0 to 9999 minutes.
458	PEY	Time 4 of Program 16. Range: 0 to 9999 minutes.
459	PES	Time 5 of Program 16. Range: 0 to 9999 minutes.
460	PE6	Time 6 of Program 16. Range: 0 to 9999 minutes.
461	PET	Time 7 of Program 16. Range: 0 to 9999 minutes.
462	PEB	Time 8 of Program 16. Range: 0 to 9999 minutes.
463	PES	Time 9 of Program 16. Range: 0 to 9999 minutes.
464	PEI	Time 1 of Program 17. Range: 0 to 9999 minutes.
465	PE2	Time 2 of Program 17. Range: 0 to 9999 minutes.
465		Time 3 of Program 17. Range: 0 to 9999 minutes.
	<u> </u>	
467		Time 4 of Program 17. Range: 0 to 9999 minutes.
468		Time 5 of Program 17. Range: 0 to 9999 minutes.
469		Time 6 of Program 17. Range: 0 to 9999 minutes.
470	<u>PE7</u>	Time 7 of Program 17. Range: 0 to 9999 minutes.
471	<u>PE8</u>	Time 8 of Program 17. Range: 0 to 9999 minutes.
472	PES	Time 9 of Program 17. Range: 0 to 9999 minutes.
473	PE I	Time 1 of Program 18. Range: 0 to 9999 minutes.
474	PE2	Time 2 of Program 18. Range: 0 to 9999 minutes.
475	PE3	Time 3 of Program 18. Range: 0 to 9999 minutes.
476	PEY	Time 4 of Program 18. Range: 0 to 9999 minutes.
477	PES	Time 5 of Program 18. Range: 0 to 9999 minutes.
478	PE6	Time 6 of Program 18. Range: 0 to 9999 minutes.
479	PET	Time 7 of Program 18. Range: 0 to 9999 minutes.
480	PEB	Time 8 of Program 18. Range: 0 to 9999 minutes.
481	PES	Time 9 of Program 18. Range: 0 to 9999 minutes.
482	PEI	Time 1 of Program 19. Range: 0 to 9999 minutes.
483	PE2	Time 2 of Program 19. Range: 0 to 9999 minutes.
483	PE3	Time 3 of Program 19. Range: 0 to 9999 minutes.
485	PE4	Time 4 of Program 19. Range: 0 to 9999 minutes.
486		Time 5 of Program 19. Range: 0 to 9999 minutes.
487		Time 6 of Program 19. Range: 0 to 9999 minutes.
488	PET	Time 7 of Program 19. Range: 0 to 9999 minutes.
489	PE8	Time 8 of Program 19. Range: 0 to 9999 minutes.

490         PL9         Time 9 of Program 19. Range: 0 to 9999 min           491         PL1         Time 1 of Program 20. Range: 0 to 9999 min           492         PL2         Time 2 of Program 20. Range: 0 to 9999 min           493         PL3         Time 3 of Program 20. Range: 0 to 9999 min           494         PL4         Time 3 of Program 20. Range: 0 to 9999 min           494         PL4         Time 4 of Program 20. Range: 0 to 9999 min           495         PL5         Time 5 of Program 20. Range: 0 to 9999 min           496         PL6         Time 6 of Program 20. Range: 0 to 9999 min	utes. utes.
493 <b>PL3</b> Time 3 of Program 20. Range: 0 to 9999 min           494 <b>PL4</b> Time 4 of Program 20. Range: 0 to 9999 min           495 <b>PL5</b> Time 5 of Program 20. Range: 0 to 9999 min	
494 <b>PŁY</b> Time 4 of Program 20. Range: 0 to 9999 min           495 <b>PŁS</b> Time 5 of Program 20. Range: 0 to 9999 min	utes.
495 <b>PLS</b> Time 5 of Program 20. Range: 0 to 9999 min	
	utes.
496 PFS Time 6 of Program 20. Range: 0 to 9999 min	utes.
	utes.
497 <b>PL 7</b> Time 7 of Program 20. Range: 0 to 9999 min	utes.
498 <b>PL8</b> Time 8 of Program 20. Range: 0 to 9999 min	utes.
499 <b>PL9</b> Time 9 of Program 20. Range: 0 to 9999 min	utes.
500 <b>PSPD</b> Setpoint 0 of Program 1.	
Range: From SPLL to SPHL.           501 <b>P5P I</b> Setpoint 1 of Program 1 (R&S)	
Range: same as in <b>PSPD</b> .	
502 <b>P5P2</b> Setpoint 2 of Program 1 (R&S)	
Range: same as in <b>P5P0</b> .	
503 <b>PSP3</b> Setpoint 3 of Program 1 (R&S)	
Solution     Solution       504 <b>PSP4</b> Setpoint 4 of Program 1 (R&S)	
Range: same as in <b>P5PD</b> .	
505 <b>PSPS</b> Setpoint 5 of Program 1 (R&S)	
Range: same as in <b>PSPO</b> .	
506 <b>P5P6</b> Setpoint 6 of Program 1 (R&S)	
Range: same as in PSP0.       507     PSP1       Setpoint 7 of Program 1 (R&S)	
Range: same as in <b>P5P0</b> .	
508 <b>PSP8</b> Setpoint 8 of Program 1 (R&S)	
Range: same as in <b>P5PD</b> .	
509 <b>PSP9</b> Setpoint 9 of Program 1 (R&S)	
Range: same as in PSP0.       510     PSP0       Setpoint 0 of Program 2.	
Range: From SPLL to SPHL.	
511 <b>PSP I</b> Setpoint 1 of Program 2 (R&S)	
Range: same as in <b>PSPD</b> .	
512 <b>PSP2</b> Setpoint 2 of Program (R&S)	
Range: same as in PSP0.       513     PSP3       Setpoint 3 of Program 2 (R&S)	
Range: same as in <b>PSPD</b> .	
514 <b>PSP4</b> Setpoint 4 of Program 2 (R&S)	
Range: same as in <b>P5PD</b> .	
515 <b>PSPS</b> Setpoint 5 of Program 2 (R&S) Range: same as in <b>PSPD</b> .	
516 <b>PSP5</b> Setpoint 6 of Program 2 (R&S)	
Range: same as in <b>P5PD</b> .	
517 <b>PSP1</b> Setpoint 7 of Program 2 (R&S)	
Range: same as in <b>P5PD</b> .	
518 <b>P5P8</b> Setpoint 8 of Program 2 (R&S) Range: same as in <b>P5P0</b> .	
519 <b>P5P9</b> Setpoint 9 of Program 2 (R&S)	
Range: same as in <b>P5P0</b> .	
520 <b>PSP</b> Setpoint 0 of Program 3.	
Range: From SPLL to SPHL.	
521 <b>P5P I</b> Setpoint 1 of Program 3 (R&S) Range: same as in <b>P5P0</b> .	
522 <b>PSP2</b> Setpoint 2 of Program 3 (R&S)	
Range: same as in <b>PSPD</b> .	
523 <b>PSP3</b> Setpoint 3 of Program 3 (R&S)	
Range: same as in <b>P5PD</b> .	
524 <b>PSP4</b> Setpoint 4 of Program 3 (R&S) Range: same as in <b>PSP0</b> .	
525 <b>PSPS</b> Setpoint 5 of Program 3 (R&S)	
Range: same as in <b>P5P0</b> .	
526 <b>PSP5</b> Setpoint 6 of Program 3 (R&S)	
Range: same as in <b>P5PD</b> .	
527 <b>PSP1</b> Setpoint 7 of Program 3 (R&S) Range: same as in <b>PSP0</b> .	
528 <b>PSP8</b> Setpoint 8 of Program 3 (R&S)	
Range: same as in <b>PSPD</b> .	
529 <b>PSP9</b> Setpoint 9 of Program 3 (R&S)	
Range: same as in <b>PSPD</b> .	
530 <b>PSPD</b> Setpoint 0 of Program 4. Range: From <b>SPLL</b> to <b>SPHL</b> .	
531 <b>P5P I</b> Setpoint 1 of Program 4 (R&S)	
Range: same as in <b>PSPO</b> .	
532 <b>PSP2</b> Setpoint 2 of Program 4 (R&S)	
Range: same as in <b>PSPD</b> .	
533 <b>P5P3</b> Setpoint 3 of Program 4 (R&S) Range: same as in <b>P5P0</b> .	
534 <b>PSP4</b> Setpoint 4 of Program 4 (R&S)	
Range: same as in <b>P5PD</b> .	
535 <b>PSP5</b> Setpoint 5 of Program 4 (R&S)	
Range: same as in <b>P5P0</b> .	

536	P5P6	Setpoint 6 of Program 4 (R&S)
537	PSP7	Range: same as in <b>PSPD</b> . Setpoint 7 of Program 4 (R&S)
		Range: same as in <b>PSPO</b> .
538	PSP8	Setpoint 8 of Program 4 (R&S) Range: same as in <b>PSPD</b> .
539	PSP9	Setpoint 9 of Program 4 (R&S) Range: same as in <b>P5P0</b> .
540	PSPD	Setpoint 0 of Program 5.
541	PSP (	Range: From SPLL to SPHL.         Setpoint 1 of Program 5 (R&S)
542	PSP2	Range: same as in <b>PSPD</b> . Setpoint 2 of Program 5 (R&S)
		Range: same as in <b>PSPD</b> .
543	PSP3	Setpoint 3 of Program 5 (R&S) Range: same as in <b>P5P0</b> .
544	Р5РЧ	Setpoint 4 of Program 5 (R&S) Range: same as in <b>P5PD</b> .
545	PSPS	Setpoint 5 of Program 5 (R&S) Range: same as in <b>P5PD</b> .
546	PSP6	Setpoint 6 of Program 5 (R&S)
547	PSPJ	Range: same as in <b>P5P0</b> . Setpoint 7 of Program 5 (R&S)
548	PSP8	Range: same as in <b>P5PD</b> . Setpoint 8 of Program 5 (R&S)
549	P5P9	Range: same as in <b>PSP0</b> . Setpoint 9 of Program 5 (R&S)
		Range: same as in <b>PSPD</b> .
550	PSPD	Setpoint 0 of Program 6. Range: From <b>SPLL</b> to <b>SPHL</b> .
551	PSP I	Setpoint 1 of Program 6 (R&S) Range: same as in <b>P5P0</b> .
552	PSP2	Setpoint 2 of Program 6 (R&S)
553	PSP3	Range: same as in <b>PSP0</b> .         Setpoint 3 of Program 6 (R&S)
554	Р5РЧ	Range: same as in <b>P5P0</b> . Setpoint 4 of Program 6 (R&S)
555	PSPS	Range: same as in <b>PSPD</b> . Setpoint 5 of Program 6 (R&S)
556	PSP6	Range: same as in <b>P5P0</b> . Setpoint 6 of Program 6 (R&S)
		Range: same as in <b>PSPD</b> .
557	PSPJ	Setpoint 7 of Program 6 (R&S) Range: same as in <b>PSPD</b> .
558	PSP8	Setpoint 8 of Program 6 (R&S) Range: same as in <b>PSPD</b> .
559	PSP9	Setpoint 9 of Program 6 (R&S) Range: same as in <b>P5P0</b> .
560	PSPD	Setpoint 0 of Program 7.
561	PSP I	Range: From SPLL to SPHL.           Setpoint 1 of Program 7 (R&S)
562	PSP2	Range: same as in <b>P5P0</b> . Setpoint 2 of Program 7 (R&S)
563	PSP3	Range: same as in <b>P5PD</b> . Setpoint 3 of Program 7 (R&S)
		Range: same as in <b>PSPD</b> .
564	РЅРЧ	Setpoint 4 of Program 7 (R&S) Range: same as in <b>PSP0</b> .
565	PSPS	Setpoint 5 of Program 7 (R&S) Range: same as in <b>P5P0</b> .
566	P5P6	Setpoint 6 of Program 7 (R&S) Range: same as in <b>P5P0</b> .
567	PSPJ	Setpoint 7 of Program 7 (R&S) Range: same as in <b><i>P5P0</i></b> .
568	PSP8	Setpoint 8 of Program 7 (R&S)
569	PSPS	Range: same as in <b>PSP0</b> . Setpoint 9 of Program 7 (R&S)
570	PSPD	Range: same as in <b>PSPD</b> . Setpoint 0 of Program 8.
571	PSP 1	Range: From <b>SPLL</b> to <b>SPHL</b> . Setpoint 1 of Program 8 (R&S)
		Range: same as in <b>PSPO</b> .
572	P5P2	Setpoint 2 of Program 8 (R&S) Range: same as in <b>PSP0</b> .
572	PSP3	Setpoint 3 of Program 8 (R&S) Range: same as in <b>P5PD</b> .
574	РЅРЧ	Setpoint 4 of Program 8 (R&S) Range: same as in <b>P5PD</b> .
575	PSPS	Setpoint 5 of Program 8 (R&S)
576	PSP6	Range: same as in <b>P5PD</b> .         Setpoint 6 of Program 8 (R&S)
		Range: same as in <b>PSPD</b> .

577	PSP7	Setpoint 7 of Program 8 (R&S)
578	PSP8	Range: same as in <b>PSPD</b> . Setpoint 8 of Program 8 (R&S)
		Range: same as in <b>PSPD</b> .
579	PSP9	Setpoint 9 of Program 8 (R&S) Range: same as in <b>P5PD</b> .
580	PSPD	Setpoint 0 of Program 9. Range: From <b>SPLL</b> to <b>SPHL</b> .
581	PSP (	Setpoint 1 of Program 9 (R&S)
500	_	Range: same as in <b>PSPD</b> .
582	PSP2	Setpoint 2 of Program 9 (R&S) Range: same as in <b>PSPD</b> .
583	PSP3	Setpoint 3 of Program 9 (R&S) Range: same as in <b>PSPD</b> .
584	Р5РЧ	Setpoint 4 of Program 9 (R&S)
585	PSPS	Range: same as in PSP0.         Setpoint 5 of Program 9 (R&S)
586	PSP6	Range: same as in <b>P5P0</b> . Setpoint 6 of Program 9 (R&S)
		Range: same as in <b>PSPD</b> .
587	PSPJ	Setpoint 7 of Program 9 (R&S) Range: same as in <b>P5PD</b> .
588	PSP8	Setpoint 8 of Program 9 (R&S)
589	PSP9	Range: same as in P5P0.         Setpoint 9 of Program 9 (R&S)
590	PSPD	Range: same as in <b>P5PD</b> . Setpoint 0 of Program 10.
590	ניקרי	Range: From SPLL to SPHL.
591	PSP 1	Setpoint 1 of Program 10 (R&S) Range: same as in <b>P5P0</b> .
592	PSP2	Setpoint 2 of Program 10 (R&S)
593	PSP3	Range: same as in <b>PSPD</b> . Setpoint 3 of Program 10 (R&S)
594		Range: same as in <b>P5P0</b> . Setpoint 4 of Program 10 (R&S)
594	РЅРЧ	Range: same as in <b>PSPD</b> .
595	PSPS	Setpoint 5 of Program 10 (R&S) Range: same as in <b>P5PD</b> .
596	PSP6	Setpoint 6 of Program 10 (R&S) Range: same as in <b>P5P0</b> .
597	PSP7	Setpoint 7 of Program 10 (R&S)
598	PSP8	Range: same as in <b>PSPD</b> . Setpoint 8 of Program 10 (R&S)
599	PSP9	Range: same as in <b>P5P0</b> . Setpoint 9 of Program 10 (R&S)
		Range: same as in <b>PSPD</b> .
600	PSPO	Setpoint 0 of Program 11. Range: From <b>SPLL</b> to <b>SPHL</b> .
601	PSP I	Setpoint 1 of Program 11 (R&S) Range: same as in <b><i>P5P0</i></b> .
602	PSP2	Setpoint 2 of Program 11 (R&S)
603	PSP3	Range: same as in <b>P5P0</b> . Setpoint 3 of Program 11 (R&S)
		Range: same as in <b>PSPD</b> .
604	рѕрч	Setpoint 4 of Program 11 (R&S) Range: same as in <b>P5PD</b> .
605	PSPS	Setpoint 5 of Program 11 (R&S) Range: same as in <b>P5P0</b> .
606	PSP6	Setpoint 6 of Program 11 (R&S)
607	PSP7	Range: same as in <b>P5P0</b> .         Setpoint 7 of Program 11 (R&S)
608	PSP8	Range: same as in <b>P5P0</b> . Setpoint 8 of Program 11 (R&S)
		Range: same as in <b>PSPD</b> .
609	PSP9	Setpoint 9 of Program 11 (R&S) Range: same as in <b>PSPD</b> .
610	PSPD	Setpoint 0 of Program 12. Range: From <b>SPLL</b> to <b>SPHL</b> .
611	PSP 1	Setpoint 1 of Program 12 (R&S)
612	P5P2	Range: same as in <b>P5P0</b> . Setpoint 2 of Program 12 (R&S)
		Range: same as in <b>PSPD</b> .
613	PSP3	Setpoint 3 of Program 12 (R&S) Range: same as in <b>P5PD</b> .
614	рбрч	Setpoint 4 of Program 12 (R&S) Range: same as in <b>P5P0</b> .
615	PSPS	Setpoint 5 of Program 12 (R&S)
616	PSP6	Range: same as in PSPD.         Setpoint 6 of Program 12 (R&S)
617	PSPJ	Range: same as in <b>P5PD</b> . Setpoint 7 of Program 12 (R&S)
017	ישבח	Range: same as in <b>PSPD</b> .

618	PSP8	Setpoint 8 of Program 12 (R&S)
619	PSPS	Range: same as in <b>PSPD</b> . Setpoint 9 of Program 12 (R&S)
		Range: same as in <b>PSPD</b> .
620	PSPD	Setpoint 0 of Program 13. Range: From <b>SPLL</b> to <b>SPHL</b> .
621	PSP (	Setpoint 1 of Program 13 (R&S)
622	PSP2	Range: same as in <b>PSPD</b> . Setpoint 2 of Program 13 (R&S)
022		Range: same as in <b>PSPD</b> .
623	PSP3	Setpoint 3 of Program 13 (R&S) Range: same as in <b>P5PD</b> .
624	Р5РЧ	Setpoint 4 of Program 13 (R&S)
625	PSPS	Range: same as in <b>PSPD</b> . Setpoint 5 of Program 13 (R&S)
020		Range: same as in <b>P5PD</b> .
626	PSP6	Setpoint 6 of Program 13 (R&S) Range: same as in <b>P5P0</b> .
627	PSPJ	Setpoint 7 of Program 13 (R&S)
628	PSPB	Range: same as in <b>PSPD</b> . Setpoint 8 of Program 13 (R&S)
020		Range: same as in <b>P5PD</b> .
629	PSP9	Setpoint 9 of Program 13 (R&S) Range: same as in <b>P5P0</b> .
630	PSPD	Setpoint 0 of Program 14.
631	PSP I	Range: From <b>SPLL</b> to <b>SPHL</b> . Setpoint 1 of Program 14 (R&S)
		Range: same as in <b>PSPD</b> .
632	PSP2	Setpoint 2 of Program 14 (R&S) Range: same as in <b>PSPD</b> .
633	PSP3	Setpoint 3 of Program 14 (R&S)
634	Р5РЧ	Range: same as in <b>PSP0</b> . Setpoint 4 of Program 14 (R&S)
		Range: same as in <b>P5PD</b> .
635	PSPS	Setpoint 5 of Program 14 (R&S) Range: same as in <b>PSPD</b> .
636	PSP6	Setpoint 6 of Program 14 (R&S)
637	PSPJ	Range: same as in <b>PSP0</b> . Setpoint 7 of Program 14 (R&S)
		Range: same as in <b>P5PD</b> .
638	PSP8	Setpoint 8 of Program 14 (R&S) Range: same as in <b>PSPD</b> .
639	PSP9	Setpoint 9 of Program 14 (R&S)
640	PSPD	Range: same as in <b>PSP0</b> . Setpoint 0 of Program 15.
641	PSP 1	Range: From SPLL to SPHL. Setpoint 1 of Program 15 (R&S)
041	_	Range: same as in <b>P5PD</b> .
642	P5P2	Setpoint 2 of Program 15 (R&S) Range: same as in <b>P5PD</b> .
643	PSP3	Setpoint 3 of Program 15 (R&S)
644	РБРЧ	Range: same as in <b>P5P0</b> . Setpoint 4 of Program 15 (R&S)
		Range: same as in <b>P5P0</b> .
645	PSPS	Setpoint 5 of Program 15 (R&S) Range: same as in <b>P5PD</b> .
646	PSP6	Setpoint 6 of Program 15 (R&S)
647	PSPJ	Range: same as in <b>PSPD</b> . Setpoint 7 of Program 15 (R&S)
		Range: same as in <b>P5PD</b> .
648	PSP8	Setpoint 8 of Program 15 (R&S) Range: same as in <b>PSPD</b> .
649	PSP9	Setpoint 9 of Program 15 (R&S)
650	PSPD	Range: same as in <b>PSPD</b> . Setpoint 0 of Program 16.
		Range: From SPLL to SPHL.
651	PSP I	Setpoint 1 of Program 16 (R&S) Range: same as in <b>PSPD</b> .
652	PSP2	Setpoint 2 of Program 16 (R&S)
653	PSP3	Range: same as in <b>PSPD</b> . Setpoint 3 of Program 16 (R&S)
6E A		Range: same as in <b>PSPD</b> .
654	РЅРЧ	Setpoint 4 of Program 16 (R&S) Range: same as in <b>P5P0</b> .
655	PSPS	Setpoint 5 of Program 16 (R&S)
656	PSP6	Range: same as in <b>PSPD</b> . Setpoint 6 of Program 16 (R&S)
657		Range: same as in <b>PSPD</b> .
657	PSP7	Setpoint 7 of Program 16 (R&S) Range: same as in <b>P5PD</b> .
658	PSP8	Setpoint 8 of Program 16 (R&S)
<u>.                                    </u>	1	Range: same as in <b>PSPO</b> .

	0500	
659	PSP9	Setpoint 9 of Program 16 (R&S) Range: same as in <b>PSPD</b> .
660	PSPD	Setpoint 0 of Program 17.
		Range: From SPLL to SPHL.
661	PSP 1	Setpoint 1 of Program 17 (R&S) Range: same as in <b>P5P0</b> .
662	PSP2	Setpoint 2 of Program 17 (R&S)
663	PSP3	Range: same as in <b>PSPD</b> . Setpoint 3 of Program 17 (R&S)
003		Range: same as in <b>PSPD</b> .
664	PSP4	Setpoint 4 of Program 17 (R&S)
665	PSPS	Range: same as in <b>PSPD</b> . Setpoint 5 of Program 17 (R&S)
		Range: same as in <b>PSPD</b> .
666	PSP6	Setpoint 6 of Program 17 (R&S) Range: same as in <b>PSPD</b> .
667	PSP7	Setpoint 7 of Program 17 (R&S)
668	PSP8	Range: same as in <b>P5PD</b> . Setpoint 8 of Program 17 (R&S)
000	F 3F 0	Range: same as in <b>PSPD</b> .
669	PSP9	Setpoint 9 of Program 17 (R&S)
670	PSPD	Range: same as in <b>PSPD</b> . Setpoint 0 of Program 18.
		Range: From SPLL to SPHL.
671	PSP I	Setpoint 1 of Program 18 (R&S) Range: same as in <b>P5P0</b> .
672	PSP2	Setpoint 2 of Program 18 (R&S)
673	PSP3	Range: same as in <b>PSPD</b> . Setpoint 3 of Program 18 (R&S)
075		Range: same as in <b>PSPD</b> .
674	рбрч	Setpoint 4 of Program 18 (R&S)
675	PSPS	Range: same as in <b>PSPD</b> . Setpoint 5 of Program 18 (R&S)
		Range: same as in <b>PSPD</b> .
676	PSP6	Setpoint 6 of Program 18 (R&S) Range: same as in <b>PSPD</b> .
677	PSP7	Setpoint 7 of Program 18 (R&S)
678	PSPB	Range: same as in <b>PSPD</b> . Setpoint 8 of Program 18 (R&S)
		Range: same as in <b>PSPD</b> .
679	PSP9	Setpoint 9 of Program 18 (R&S) Range: same as in <b>PSPD</b> .
680	PSPD	Setpoint 0 of Program 19.
681	PSP I	Range: From SPLL to SPHL. Setpoint 1 of Program 19 (R&S)
001		Range: same as in <b>P5PD</b> .
682	PSP2	Setpoint 2 of Program 19 (R&S) Range: same as in <b>P5PD</b> .
683	PSP3	Setpoint 3 of Program 19 (R&S)
684	Р5РЧ	Range: same as in <b>P5P0</b> . Setpoint 4 of Program 19 (R&S)
004		Range: same as in <b>P5PD</b> .
685	PSPS	Setpoint 5 of Program 19 (R&S)
686	PSP6	Range: same as in <b>P5P0</b> . Setpoint 6 of Program 19 (R&S)
		Range: same as in <b>P5PD</b> .
687	PSPJ	Setpoint 7 of Program 19 (R&S) Range: same as in <b>PSPD</b> .
688	PSP8	Setpoint 8 of Program 19 (R&S)
689	PSPS	Range: same as in <b>PSPD</b> . Setpoint 9 of Program 19 (R&S)
		Range: same as in <b>P5PD</b> .
690	PSPD	Setpoint 0 of Program 1. Range: From <b>SPLL</b> to <b>SPHL</b> .
691	PSP I	Setpoint 1 of Program 1 (R&S)
692	PSP2	Range: same as in <b>PSPD</b> . Setpoint 2 of Program 1 (R&S)
		Range: same as in <b>P5PD</b> .
693	PSP3	Setpoint 3 of Program 1 (R&S) Range: same as in <b>PSPD</b> .
694	РЅРЧ	Setpoint 4 of Program 1 (R&S)
695	PSPS	Range: same as in <b>PSPD</b> . Setpoint 5 of Program 1 (R&S)
555		Range: same as in <b>P5PD</b> .
696	PSP6	Setpoint 6 of Program 1 (R&S) Range: same as in <b>PSPD</b> .
697	PSP7	Setpoint 7 of Program 1 (R&S)
600		Range: same as in <b>PSPD</b> .
698	PSP8	Setpoint 8 of Program 1 (R&S) Range: same as in <b>P5PD</b> .
699	PSP9	Setpoint 9 of Program 1 (R&S)
700	Reserved	Range: same as in <b>P5P0</b> . Internal use

Register	Value format
Status Word 1	bit 0 – Alarm 1 (0-inactive; 1-active)
	bit 1 – Alarm 2 (0-inactive; 1-active)
	bit 2 – Alarm 3 (0-inactive; 1-active)
	bit 3 – Alarm 4 (0-inactive; 1-active)
	bit 4 – Input 0 – I/O 5 (0- inactive; 1- active)
	bit 5 – Input 1 – I/O 3 (0- inactive; 1- active)
	bit 6 – Input 2 – I/O 4 (0- inactive; 1- active)
	bit 7 – Reserved
	bit 8 – Hardware detection value
	bit 9 – Hardware detection value
	bit 10 – Reserved
	bit 11 – Reserved
	bit 12 – Reserved
	bit 13 – Reserved
	bit 14 – Reserved
	bit 15 – Reserved
Status Word 2	bit 0 – Automatic (0- manual; 1- automatic)
	bit 1 – Run (0-stop; 1-run)
	bit 2 – Control Action (0-direct; 1-reverse)
	bit 3 – Reserved
	bit 4 – Auto-tune (0-no; 1-yes)
	bit 5 – Alarm 1 power-up inhibit (0-no; 1-yes)
	bit 6 – Alarm 2 power-up inhibit (0-no; 1-yes)
	bit 7 – Alarm 3 power-up inhibit (0-no; 1-yes)
	bit 8 – Alarm 4 power-up inhibit (0-no; 1-yes)
	bit 9 – Unit (0-°C; 1-°F)
	bit 10 – Reserved
	bit 11 – Output 1 status
	bit 12 – Output 2 status
	bit 13 – Output 3 status
	bit 14 – Output 4 status
	bit 15 – Output 5 status
Status Word 3	bit 0 – Very low PV conversion (0-no; 1-yes)
	bit 1 – Negative conversion after calibration (0-no; 1-yes)
	bit 2 – Very high PV conversion (0-no; 1-ves)
	bit 3 – Exceeded linearization limit (0-no; 1-yes)
	bit 4 – Very high Pt100 cable resistance (0-no; 1-yes)
	bit 5 – Self zero conversion out of range (0-no; 1-yes)
	bit 6 – Self span conversion out of range (0-no; 1-yes)
	bit 7 – Reserved
	bit 8 – Reserved
	bit 9 – Reserved
	bit 10 – Reserved
	bit 11 – Reserved
	bit 12 – Reserved
	bit 13 – Reserved
	bit 14 – Reserved
	bit 15 – Reserved
	Table 2: Values of Status Words

Table 2: Values of Status Words

Writing to an output bit is only possible if the output has no function assigned to it (the output is configured to  ${\sf OFF}$  in Alarm Cycle).

Coil Status	Output description
1	Output 1 Status (I/O1)
2	Output 2 Status (I/O2)
3	Output 3 Status (I/O3)
4	Output 4 Status (I/O4)
5	Output 5 Status (I/O5)

## **Exception Responses – Error Conditions**

The MODBUS RTU protocol checks the CRC in the data blocks received.

Reception errors are detected by the CRC, causing the controller to discard the packet, not sending any reply to the master.

After receiving an error-free packet, the controller processes the packet and verifies whether the request is valid or not, sending back an exception error code in case of an invalid request. Response frames containing error codes have the most significant bit of the Modbus command set.

If a WRITE command sends an out-of-range value to a parameter, the controller will clamp the value to the parameter range limits, replying with a value that reflects these limits (maximum or minimum value allowed for the parameter).

The controller ignores broadcast READ commands; the controller processes only broadcast WRITE commands.

Error Code	Error Description
01	Invalid Command
02	Invalid Register Number or out of range
03	Invalid Register Quantity or out of range

Table 3 – Exception response error codes