5 DIGITAL MICRO-PROCESS RS-485 METER

DC5M-S

■ FEATURES

- Programmable display by RS-485 communication
- High brightness 0.8" LED display range: -19999~99999; decimal point selectable
- High stability, non-flammable case (PC), high safety
- CE approval

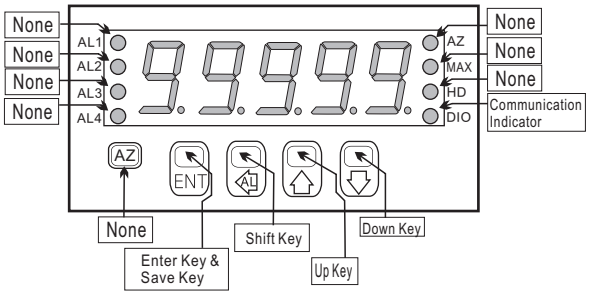
■ ORDER INFORMATION: DC5M - S - Code 1

Code 1	Aux. Power
A	AC/DC 100~240V
C	DC 22~60V

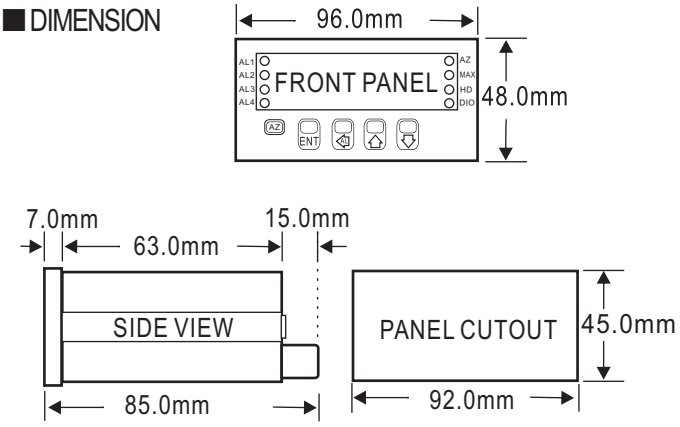
■ SPECIFICATION

♦ Display Screen:	High brightness red LED; 20.3mm(0.8")
♦ Display Range:	-19999~99999
♦ Parameters Setting:	Push buttons
♦ Back Up Memory:	EEPROM
♦ Communication:	RS-485 Modbus RTU mode
♦ Baud Rate:	19200 / 9600 / 4800 / 2400 bps
♦ Parity Check:	n.8.2. / n.8.1. / odd / even
♦ Temperature Coefficient:	100ppm / ℃ (0~60℃)
♦ Operating Temperature:	0~60℃
♦ Operating Humidity:	20~90% RH (non-condensing)
♦ Storage Temperature:	-10~70℃
♦ Storage Humidity:	20~90% RH (non-condensing)
♦ Power Supply:	AC/DC 100~240V; DC 22~60V
♦ Power Consumption:	8.5VA (all functions output)
♦ Surge Test:	1.5KVac / 1min (Input / Power)
♦ Input Impendence:	Voltage: >2V for 20KΩ / V; ≦2V for >200MΩ Current: ≧0.2A at 100mV; <0.2A at 1V
♦ Dimensions:	96(W)*48(H)*110(D) mm
♦ Weight:	About 350 g

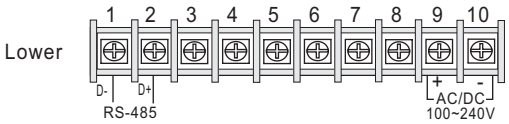
■ FRONT PANEL & KEY FUNCTIONS



■ DIMENSION



■ WIRING CONNECTION



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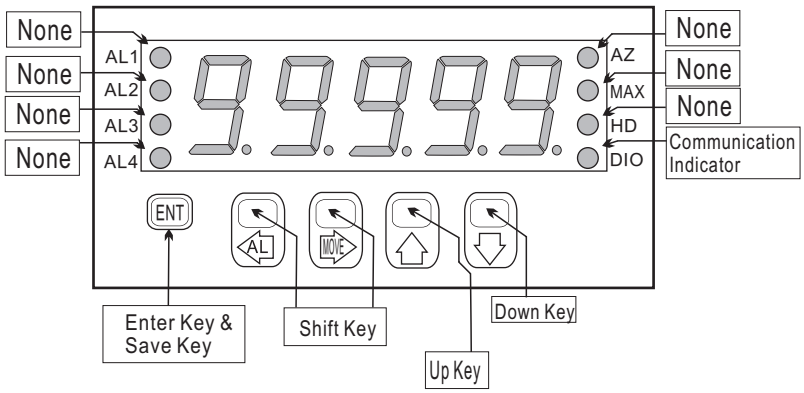
✻ Please understand key indicators & functions at the first operation.

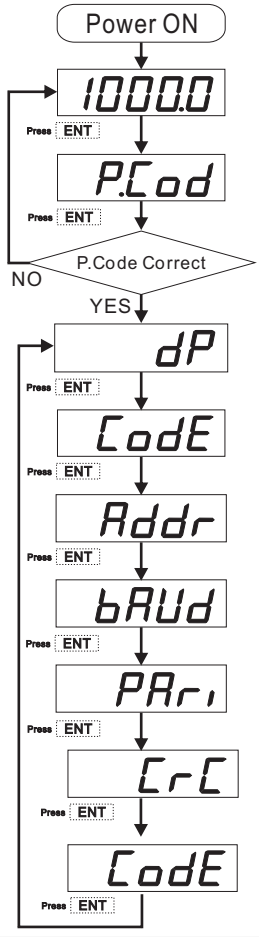
FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Enter Key & Save Key	ENT	1. In the measuring status, press this key can enter to parameter pages. 2. In the parameter setting, press this key can save the value & go to next parameter.
Shift Key	AL	1. In the parameter setting , press this key can move the cursor left.
Up Key	⌂	1. In the parameter setting, press this key can increase the digits.
Down Key	▽	1. In the parameter setting , press this key can decrease the digits.

**1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
2. To modify the parameters, please press AL ⌂ ▽, and press **ENT** to save the parameters after the modification.
3. Please don't forget the new pass code after modification.
4. In any pages, press ⌂ & ▽, or don't press any keys for 2 minutes that will back to measuring status.

PROGRAMMING MODE OPERATING PROCEDURES



Display	Descriptions	Default
Measuring Status	Present value for measurement.	
Pass Code (P.Cod)	Press AL ⌂ ▽ to enter pass code.	00000
	Pass code is correct that will enter to parameter groups. Pass code is wrong that will back to measuring status.	
Decimal Point Setting (dP)	Press ⌂ ▽ to select decimal point (0, 1).	0
Pass Code Setting (CodE)	Press AL ⌂ ▽ to modify pass code (0~19999). PS: Please don't forget the new pass code after modification.	00000
Address Setting (Addr)	Press ◁ ⌂ ▽ to modify address (0~255).	00000
Baud Rate Setting (bAUd)	Press ⌂ ▽ to select baud rate (38400/19200/9600/4800).	19200
Parity Setting (PAri)	Press ⌂ ▽ to select parity (n.8.2/n.8.1/even/odd).	n.8.2.
CRC Setting (CrC)	Press ⌂ ▽ to select CRC type (NO; YES)	no
Pass Code Setting (CodE)	Press AL ⌂ ▽ to modify pass code(0~19999) PS: Please don't forget the new pass code after modification.	00000

Error Code of Self-Diagnosis

Display	Descriptions
E-00	1. EEPROM reading/writing suffers the interference. 2. EEPROM writing is over-range (about 1 million times, guarantees 10 years), please restart the meter, if the display value is still "E-00", please do the following steps: a. E-00/NO alternates flash, means that request to reset EEPROM default or not. b. Press △ & ▽ to select "YES" and back to measuring page.

**Please check the wiring connection is correct first, if the problem still exist, please return the meter to the factory.

Modbus RTU Mode Protocol Address Table

Data: 16Bit / 32Bit, +/- is 8000~7FFF (-32768~32767), 80000000~7FFFFFFF(-2147483648~2147483647)

Modbus	HEX	Name	Descriptions	Act
40001	0000	DP	LSB=D1; Decimal point setting; range: 0000~0004 (0~4) 0:10^{0}, 1:10^{-1}, 2:10^{-2}, 3:10^{-3}, 4:10^{-4}	R/W
40002	0001	ADDR	Address setting; range: 0000~00FF (0~255)	R/W
40003	0002	BAUD	Baud rate setting; range: 0000~0003 (0~3) 0:19200, 1:9600, 2:4800, 3:2400	R/W
40004	0003	PARI	Parity setting: range: 0000~0003 (0~3), 0:N.8.2., 1:N.8.1., 2:EVEN, 3:ODD	R/W
40005	0004	CRC	CRC setting; range: 0000~0001 (0~1), 0:NO, 1:YES	R/W
40006	0005	CODE	Pass code setting; range: 0000~4E1F (0~19999)	R/W
40007	0006	DISPLAY	Display value zero setting; range: FFFFB1E1~0001869F (-19999~99999) Hi Bit	R/W
40008	0007		Display value span setting; range: FFFFB1E1~0001869F(-19999~99999) Low Bit	R/W