

APM489-RS485 Remote Display Indicator

DESCRIPTION

CS1-8 has been designed for remote display by RS485(Modbus RTU Mode) interface



ORDERING INFORMATION

CS1-8-

CODE	AUX. POWER
A	AC115/230V
OPTION 4	
ADH	ACDC 85-264V
ADL	ACDC 20-56V

TECHNICAL SPECIFICATION

Display & Functions

LED: Numeric: 5 digits, 0.8"(20.0mm)H red high-brightness LED
RS 485 communication: 1 square orange LED

Display range:

-19999-29999;

RS 485 Communication(option)

Protocol: Modbus RTU mode
Baud rate: 1200/2400/4800/9600/19200/38400 programmable
Data bits: 8 bits
Parity: Even, odd or none (with 1 or 2 stop bit) programmable
Address: 1 ~ 255 programmable
Remote display: to show the value from RS485 command of master
Distance: 1200M
Terminate resistor: 150Ω at last unit.

Electrical Safety

Dielectric strength: AC 2.0 KV for 1 min, Between Power / Input / Output / Case
Insulation resistance: ≥100M ohm at 500Vdc, Between Power / Input / Output
Isolation: Between Power / Input / RS485
EMC: EN 55011:2002, EN 61326:2003
Safety(LVD): EN 61010-1:2001

Environmental

Operating temp.: 0~60 °C
Operating humidity: 20~95 %RH, Non-condensing
Temp. coefficient: ≤100 PPM/°C
Storage temp.: -10~70 °C
Enclosure: Front panel: IEC 529 (IP52); Housing: IP20

Mechanical

Dimensions: 96mm(W) x 48mm(H) x 72mm(D)
Panel cutout: 92mm(W) x 44mm(H)
Case material: ABS fire-resistance (UL 94V-0)
Mounting: Panel flush mounting
Terminal block: Plastic NYLON 66 (UL 94V-0)
 10A 300Vac, M2.6, 1.3~2.0mm²(16~22AWG)

Weight:

350g

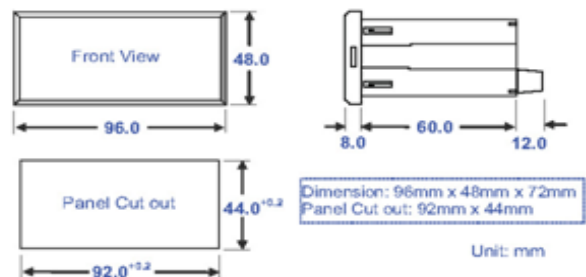
Power

Power supply: AC115/230V,50/60Hz;
 Optional: AC 85-264V / DC 100-300V or DC 20-56V
Excitation supply: DC24V/30mA maximum in standard
Power Consumption: 3.0VA maximum
Back up memory: By EEPROM

FRONT PANEL

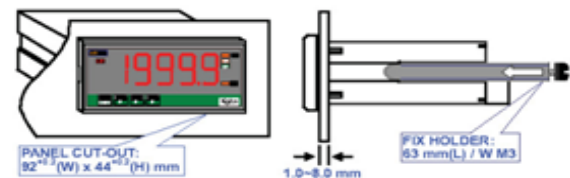


DIMENSIONS

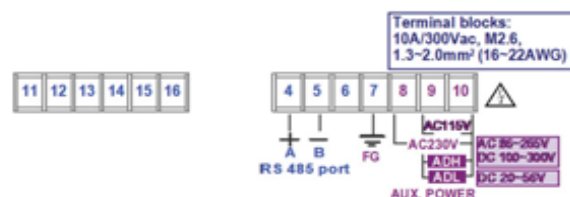


INSTALLATION

The meter should be installed in a location that does not exceed the maximum operating temperature and provides good air circulation.



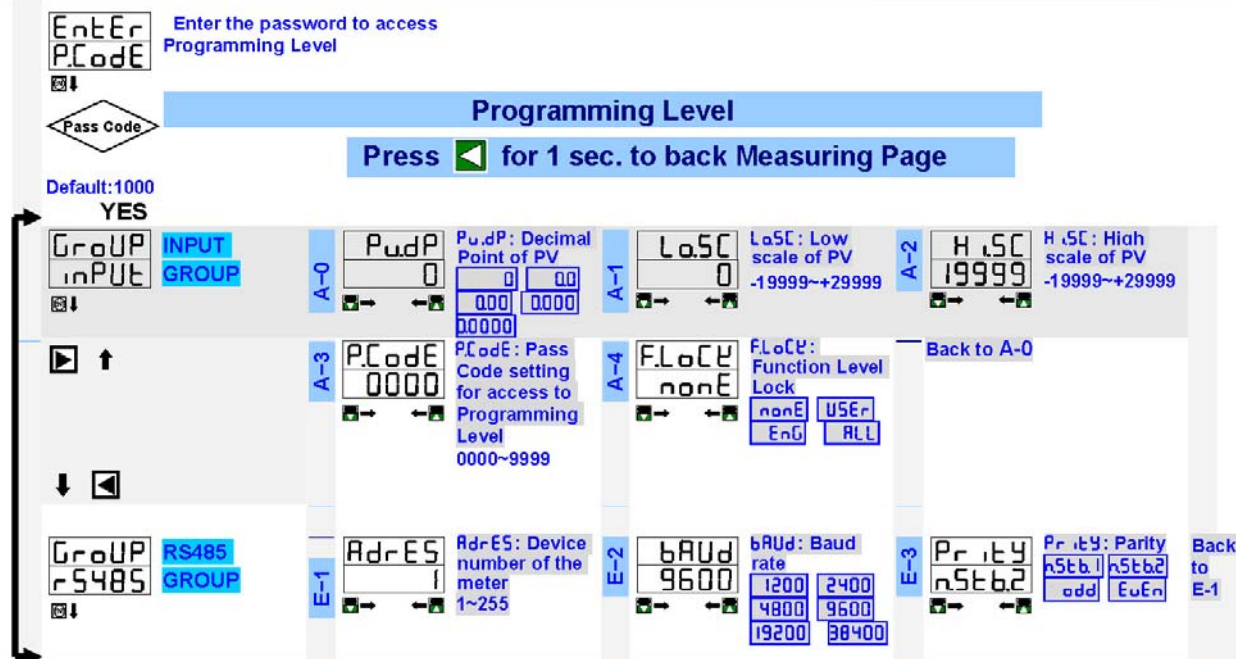
CONNECTION DIAGRAM



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AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ

OPERATING FLOW CHART:



Communication address table ** Address hexadecimal numeric address

User Level

Name	Address	Range	Explain	Initial	Write/Read	Note
rS485	0006h	-19999~29999	PV showing from RS485 command(data)	00h	R/W	

Engineer Level

[Input Group]						
Name	Address	Range	Explain	Initial	Write/Read	Note
P.dP	0008h	0~4	PV Decimal Point 0: 00000 1: 0000.0 2: 000.00 3: 00.000 4: 0.0000	00h	R/W	
LoSC	0009h	-19999~29999	Low Scale	00h	R/W	
HiSC	000Ah	-19999~29999	High Scale	4E1Fh (19999)	R/W	
dSPLY	000Eh	0~3	Display Mode 1: Minimum Hold 2: Maximum Hold 3: RS485	03h	R/W	
P.CodE	0012h	0000~9999	Pass Code	03E8h (1000)	R/W	
F.LoCk	0013h	0~3	Function Lock 0: none 1: User Level 2: Programming Level 3: All	00h	R/W	
[RS485 Group]						
Name	Address	Range	Explain	Initial	Write/Read	Note
AdrES	0014h	1~255	RS485 address	01h	R/W	
bAUd	0015h	0~5	RS485 baud rate 0:1200 1:2400 2:4800 3:9600 4:19200 5:38400	03h	R/W	
Pr iEtY	0016h	0~3	RS485 parity 0: n-8-1 1: n-8-2, 2: odd, 3: even,	01h	R/W	

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