

三相電能質量分析電錶

CPM95

特點

- 85項重要電力參數測量
- 2~63次分次諧波及總諧波含量分析
- RS485 Modbus RTU通訊
- Ethernet 網路通訊，可用作閘道
- 8時段4費率功能
- 30組SOE狀態記錄
- 高精度0.5s級
- 負載功率扇形圖標及數字百分比指示
- 各項參數最大值及最小值記錄
- 1~60分鐘需量(DEMEND)功能，具區間模式及滑動模式



■ 選用型號規格: CPM 95 - 代碼1 - 代碼2 代碼3 - 代碼4 - 代碼5

碼1	輸入規格	碼2	電壓(V)	碼3	電流(A)	碼4	費率	碼5	工作電源
D	Ethernet+4DI+2DO	1	0~600V	1	0~5A	C	4費率	A	85~275V AC / 120~380V DC
E	Ethernet+Gateway+4DI+2DO	0	Option	0	Option				

■ 規格特性：

Electrical characteristics		
Type of measurement		RMS including harmonics on three phase AC system (3P, 3P+N) 128 samples per cycle
Measurement accuracy	Power	IEC 61557-12 Class 0.5
	Active Energy	IEC 62053-22 Class 0.5S, IEC 61557-12 Class 0.5
	Reactive Energy	± 0.5% , IEC 62053-23 Class 1
	Frequency	± 0.1%
	Current	± 0.2%
	Voltage	± 0.2%
	Power Factor	± 0.5%
	Harmonic Distortion	± 1%
Data Update Rate		1 second nominal
Input-Voltage	VT Primary	50 ~ 600000 Vac
	Un	230 V L-N
	Measured Voltage with Over-range and Crest Factor	50 to 600 Vac L-L 50 to 345 Vac L-N
	Permanent Overload	600 V L-L 345 V L-N
	Impedance	1M Ω
	Frequency Range	45~65Hz
	CT Ratings	Primary 1~9999A Secondary 1A / 5A
	Measured currentwith Over-rangeandCrest Factor	5mA~6A
Input- Current	Withstand	Continuous 8A 120A for 0.5Seconds
	Impedance	< 1 mΩ
	Frequency Range	45~65Hz
	Burden	<0.036VA at 6A
	Operating Range	85~275V AC / 120~380V DC
	Power Consumption	< 7VA/3.5W.
	Frequency	45 to 65 Hz
	AuxiliaryPower Supply	

Digital output	Number/Type	2 - electromagnetic relay
	Output Frequency	1 Hz maximum
	Switching Current	250 Vac at 3.0 Amps, 100k cycles,
	Isolation	2.5 KVac for 1min
Digital Input	Number	4
	Input Resistance	10 kΩ
	Maximum Frequency	1kHz
	Response Time	10 milliseconds
	Isolation	2.5 KVac for 1min

Mechanical Characteristics

Weight	250g
IP Degree of Protection (IEC 60529)	IP51 front display
Dimensions (WxHxD)	96x96x70.3
Mounting Positio	Vertical
Panel Thickness	1~5mm
Material of meter case	Self-extinguishing UL 94 V-0
Mechanical environment	M1

Environmental Characteristics

Operating Temperature	-25 to 55°C
Storage Temperature	-40 to 70°C
Humidity Rating	<95% RH at 50 °C (non-condensing)
Pollution Degree	2
Altitude	2000m
Vibration	10Hz to 50Hz, IEC 60068-2-6

Electromagnetic Compatibility

Electrostatic Discharge	IEC 61000-4-2
Immunity to Radiated Fields	IEC 61000-4-3
Immunity to Fast Transients	IEC 61000-4-4
Immunity to Impulse Waves	IEC 61000-4-5
Conducted Immunity	IEC 61000-4-6
Immunity to Magnetic Fields	IEC 61000-4-8
Immunity to Voltage Dips	IEC 61000-4-11
Radiated Emissions	EN55011 Class A
Conducted Emissions	EN55011 Class A
Harmonics	IEC 61000-3-2
Limits for voltage	IEC 61000-3-3

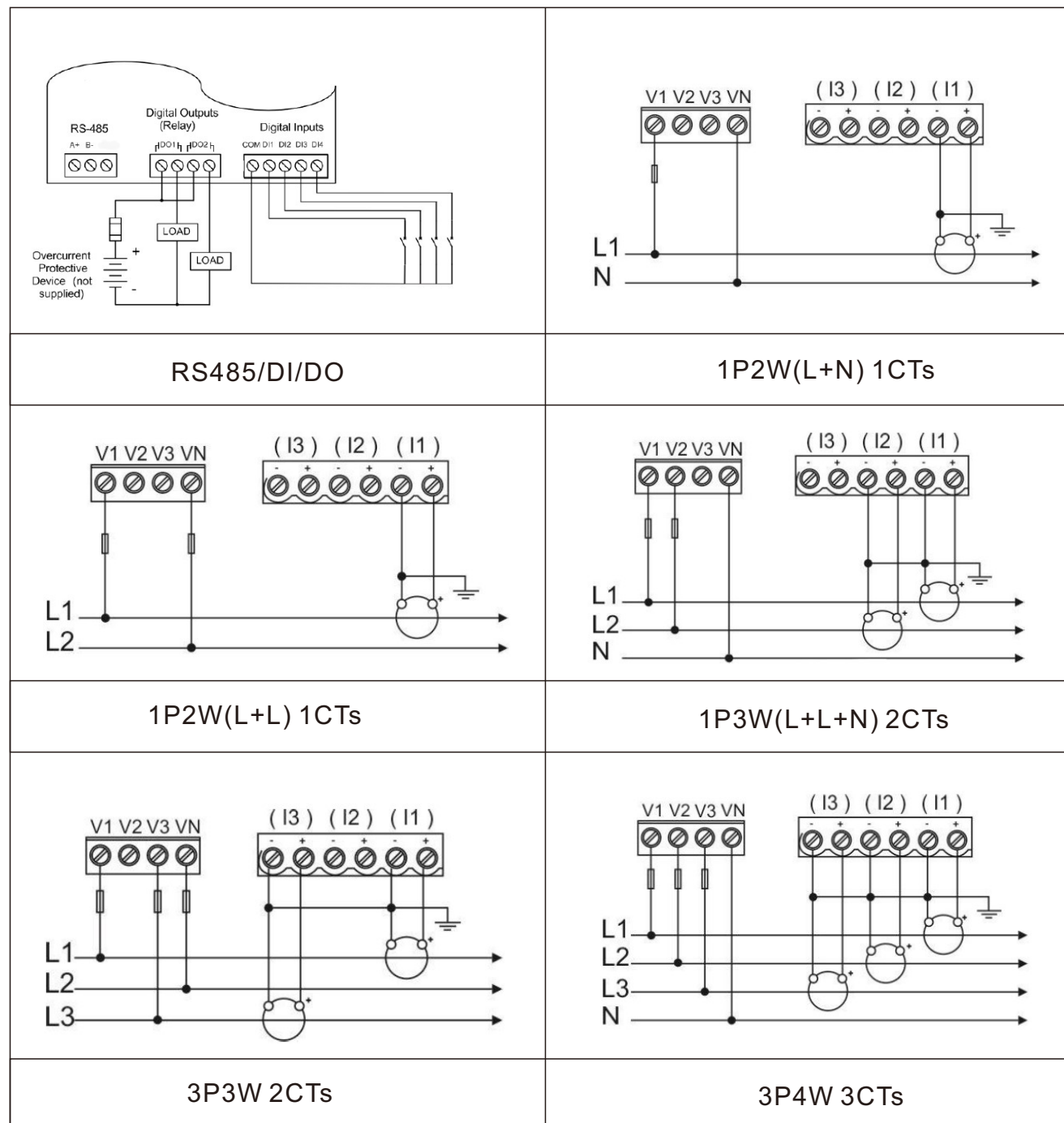
Safety

Measurement Category	Per IEC61010-1 CAT III
Current Inputs	Require external Current Transformer for Insulation
Over voltage Category	CAT III
Dielectric Withstand	As per IEC 61010-1 Double Insulated front panel display
Protective Class	II
Voltage withstand capability	AC withstand voltage 4 kV / 1 min,between Power/ Input/ Output / Case
Surge test	6 kV 1.2/50 μs

Communications

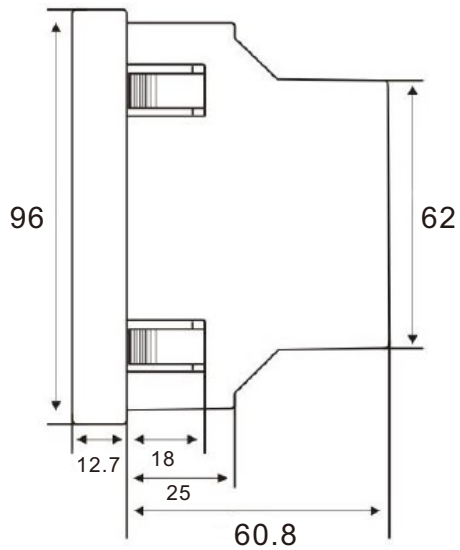
Interface standard and protocol	RS485 and MODBUS RTU / TCP/IP
Communication address	1~247
Transmission mode	Half duplex
Data type	Floating point
Transmission distance	1000m Maximum
Transmission speed	2400bps~38400bps
Parity	None (default), Odd, Even
Stop bits	1 or 2
Response time	RS485<100 mS / TCP/IP <50 mS

■接線圖：



3P3W 2PT2CTs	3P4W 3PT3CTs
3P3W 1CT Balance load	3P4W 1CT Balance load

■外觀尺寸圖：



Cutout: 92x92mm