



Automation for a Changing World

Power Meter DPM-C530A



www.deltaww.com

 **DELTA**
Smarter. Greener. Together.

Delta's Power Meter DPM-C530A Series offers precise measurement of various electrical energy values and power quality parameters, including power factor, harmonics, and current/voltage unbalance with functions such as off-limit alarms and history logs. It provides exceptional communication quality and monitoring functions that are especially suitable for sectors where power quality is critical.



Features

High Precision Power Measurement

- ▶ Highly precise measurement of bidirectional electrical energy and power parameters, meeting Class 0.5S of IEC62053 and CNS14607 standards
- ▶ Supports power quality measurement, including total harmonic distortion, up to 31st harmonics, voltage and current unbalance, and more

Large Screen LCD

White-light widescreen LCD with resolution of 198x160 dots.



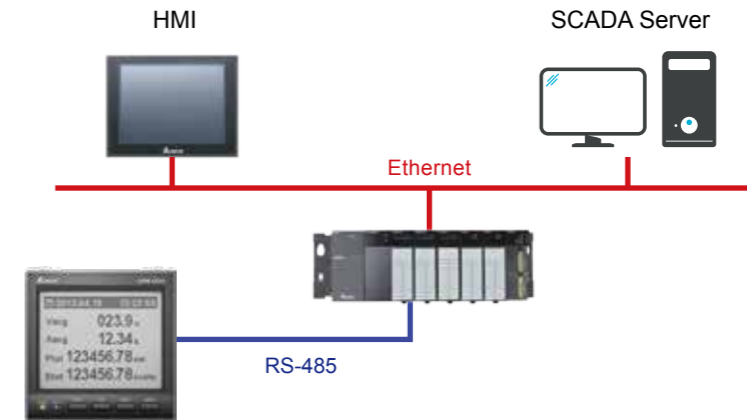
Ptot 123456.78 kW
Etot 123456.78 kVARh

Visibility better than
segment-type LCD



Easy Operation and Installation

- ▶ Two mounting clips hold the meter in place, no other tools required
- ▶ Language customization: Traditional Chinese, Simplified Chinese and English
- ▶ Built-in RS-485 communication port supports Modbus RTU/ASCII
- ▶ Transmission of all measurement values to the upper-level controllers via communication



Event Alarms and History Logs

- ▶ Built-in 8M bytes of storage for up to 500 units of event records, the highest capacity in the industry
- ▶ Keeps max. 2 months of power and electrical energy measurement values for history analysis
- ▶ 29 built-in types of event alarms
- ▶ Front LED indicators for real-time alarms. Alarm messages with time stamps can be transmitted to upper-level controllers via communication



Auto Meter Reading

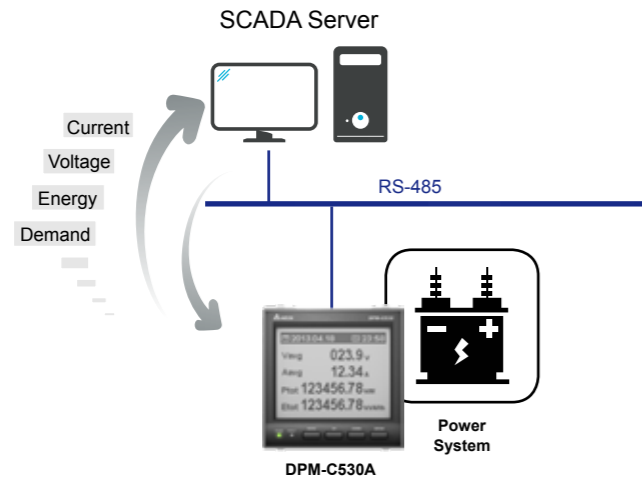
Two built-in individual data registers record real energy and reactive energy in a certain given time lapse when triggered through communication.



Features

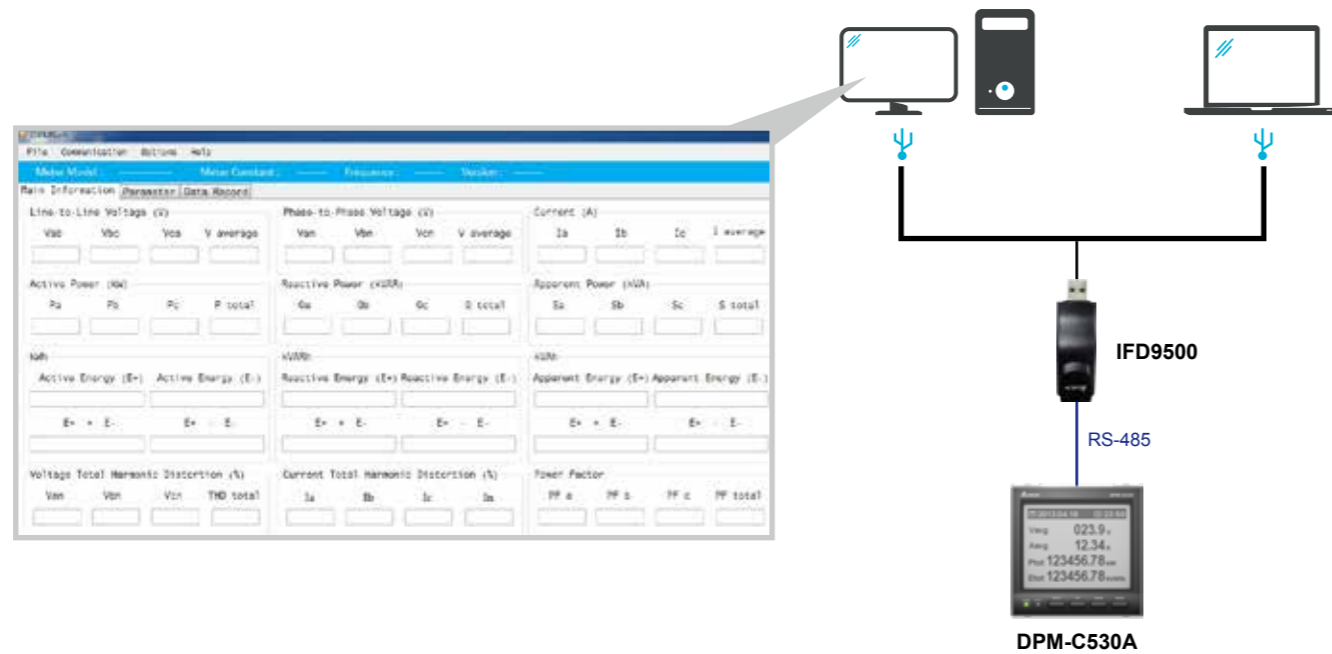
Parameter Grouping

Grouping the measurands for faster data transmission and reading by the upper-level controllers improves the efficiency and performance of the whole energy management system.



PC-Based Configuration Software

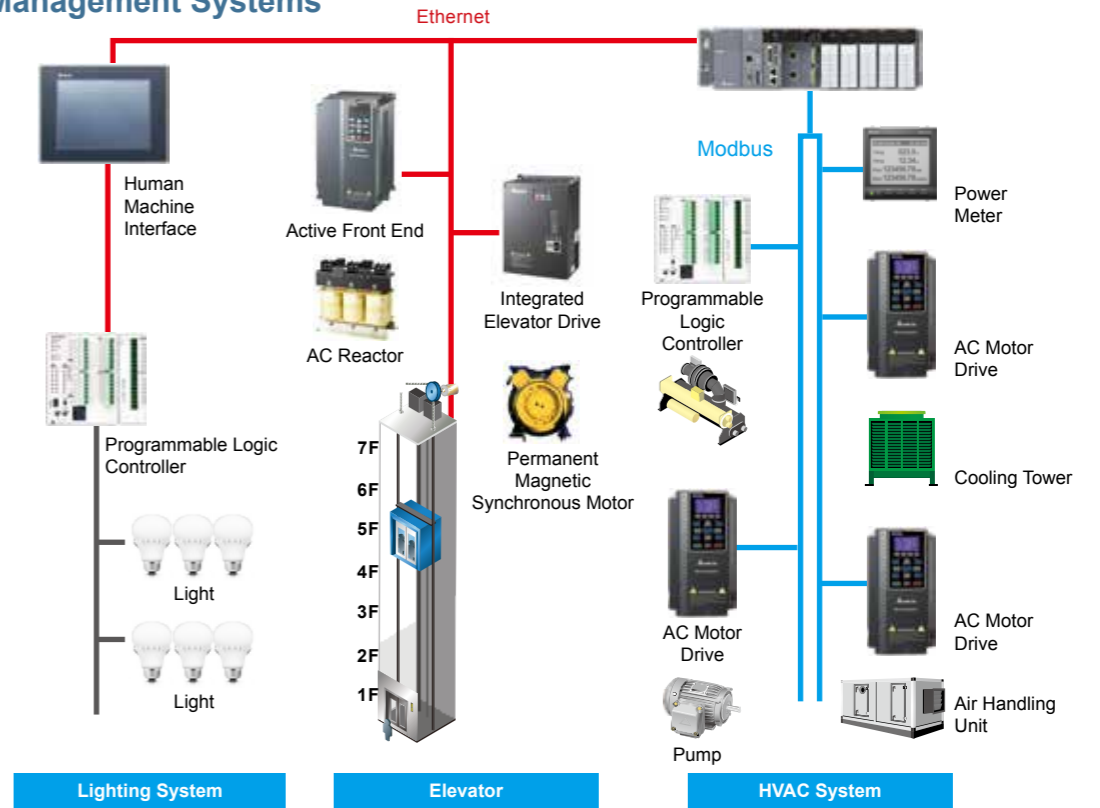
Utilizing DPMSoft software through Modbus communication for power meter setup and data acquisition provides easy power management and analysis.



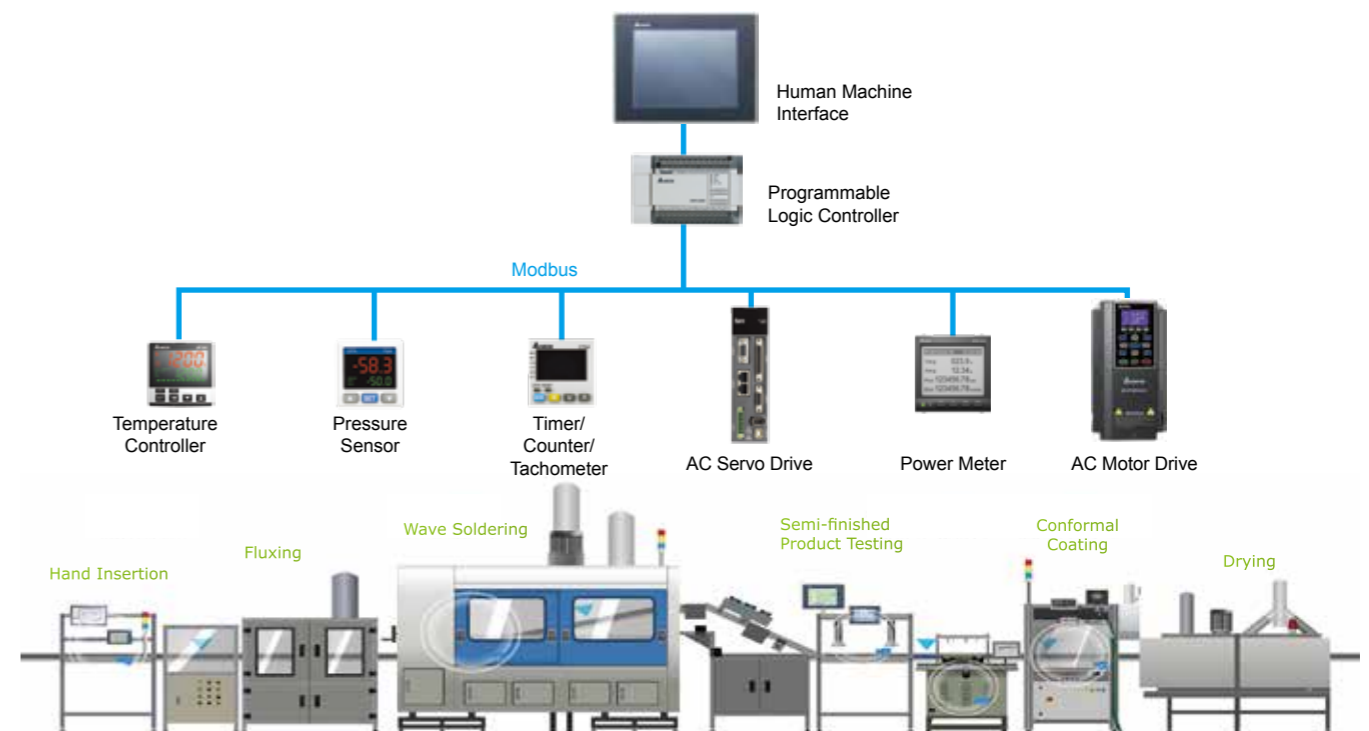
Applications

Medium / low voltage power distribution panels / Energy Management Systems / Building Energy Management Systems / Factory Energy Management Systems

Energy Management Systems



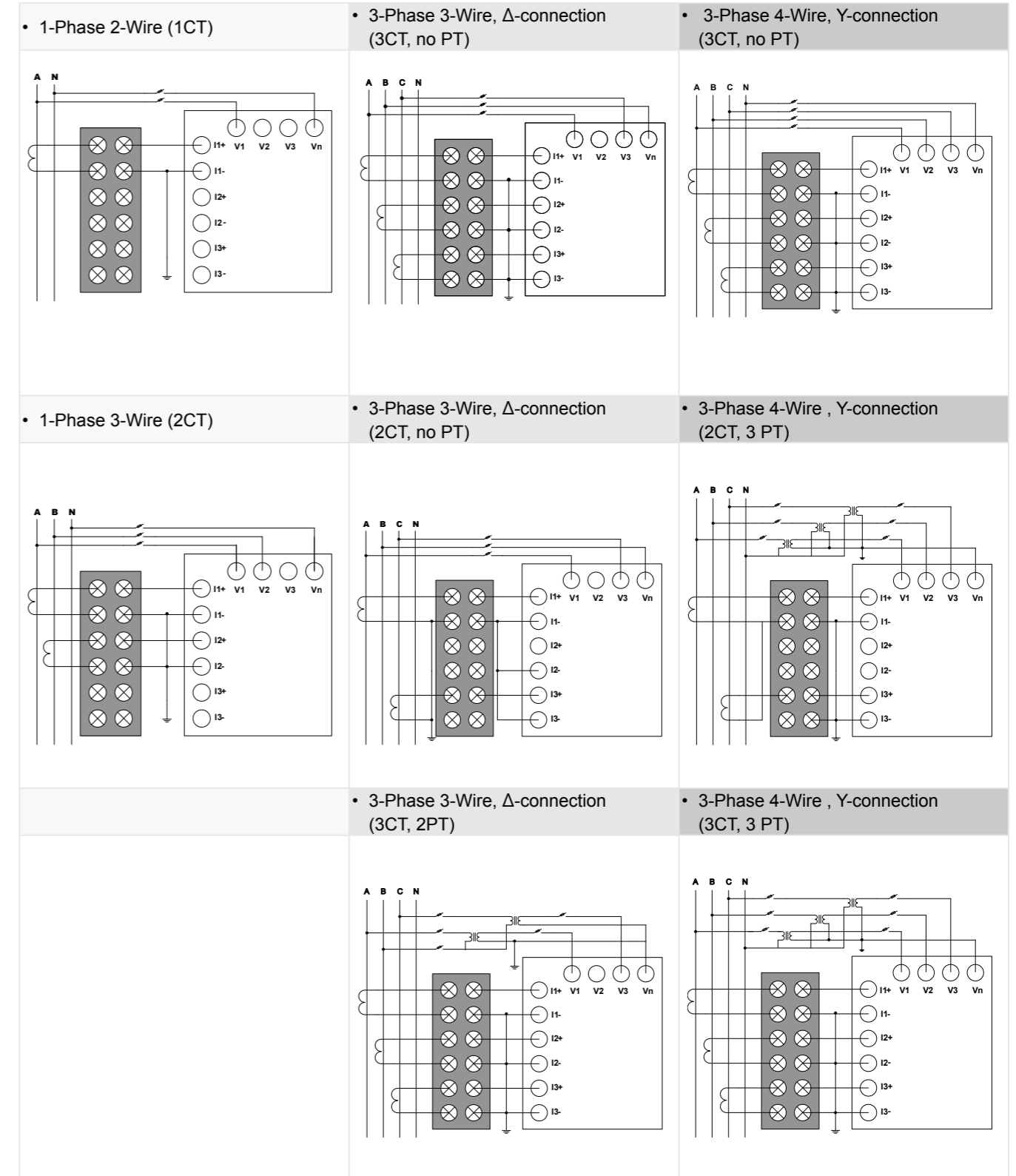
Factory Energy Management Systems



Specifications

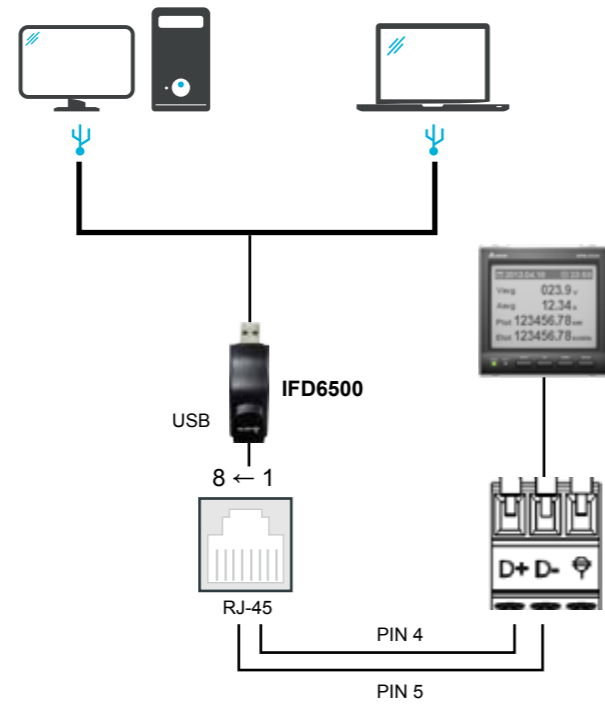
Measurement Accuracy	Power	Voltage, Current	±0.2%
		Active Power, Reactive Power, Apparent Power	±0.5%
	Electrical Energy	Active	±0.5%
		Reactive	±0.5%
		Power Factor	±0.5%
		Active Power Demand Value	±0.5%
		Reactive Power Demand Value	±0.5%
		Apparent Power Demand Value	±0.5%
		Total Harmonic Distortion THD (Current)	±1%
		Total Harmonic Distortion THD (Voltage)	±1%
		Harmonics	±1%
		Frequency Accuracy	±0.5%
Input	Wiring Method		1-Phase 2-Wire (1CT) / 1-Phase 3-Wire (2CT) 3-Phase 3-Wire, Δ-connection (3CT, no PT) 3-Phase 3-Wire, Δ-connection (2CT, no PT) 3-Phase 3-Wire, Δ-connection (3CT, 2PT) 3-Phase 4-Wire, Y-connection (3CT, no PT) 3-Phase 4-Wire, Y-connection (3CT, 3 PT) 3-Phase 4-Wire, Y-connection (2CT, 3 PT)
	Voltage	Operating Range	Line voltage: 35~690V AC (L-L) Phase voltage: 20~400V AC(L-N)
	Current	Operating Range	1A/5A
		Frequency	45~70Hz
Alarm	Alarm Parameter Selections		29 types of Over/Under limit alarm
Power Supply	Operating Range		80~265VAC (Max. power consumption 4.6W) 100~300VDC
Communication Interface	RS-485 Interface		Modbus-RTU, Modbus-ASCII Baud rate: 9600 / 19200 / 38400bps
	Dimension (W x H x D)		96 x 96 x 95.4mm
Case	IP Degree of Protection		IP52 (Front panel), IP20 (Power meter)
	Operating Temperature		-20°C ~ +70°C
Environment	Storage Temperature		-30°C ~ +80°C
	Humidity Rating		~95% RH
	Altitude		Below 2000 m

Wiring Diagram

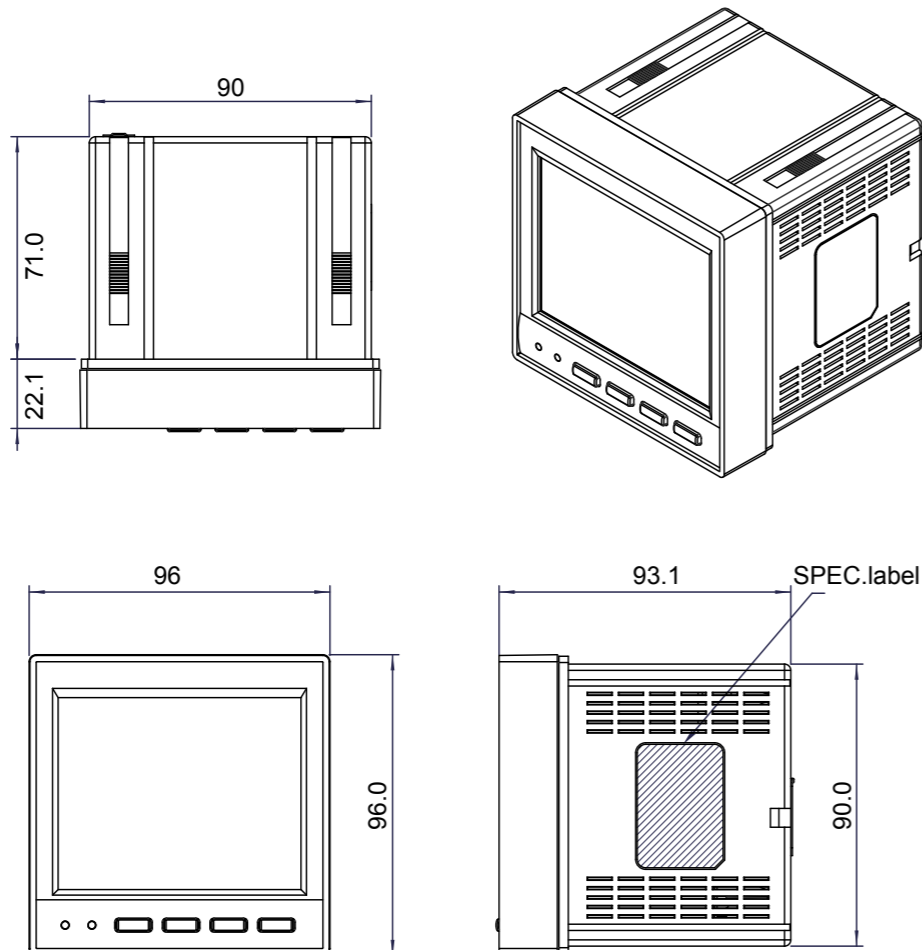


DPMSoft User Guide

PIN	Definition
4	D+
5	D-



Dimensions (mm)



Optional Accessories

Model	Primary Current (A)	Secondary Current (A)	Secondary Output Voltage (VA)	Measurement Accuracy (%)	Sizes (mm)	
DCT-S301C	100A	5A	1.5VA	1.0%	Outer Frame	115 x 89 x 51
					Inner Frame	32 x 21 x 32
DCT-S211C	200A	5A	1.5VA	0.5%	Outer Frame	115 x 89 x 51
					Inner Frame	32 x 21 x 32
DCT-S221C	300A	5A	2.5VA	0.5%	Outer Frame	115 x 89 x 51
					Inner Frame	32 x 21 x 32
DCT-S231C	400A	5A	3.75VA	0.5%	Outer Frame	115 x 89 x 51
					Inner Frame	32 x 21 x 32
DCT-S241C	500A	5A	5VA	0.5%	Outer Frame	145 x 116 x 51
					Inner Frame	80 x 50 x 32
DCT-S251C	600A	5A	5VA	0.5%	Outer Frame	145 x 116 x 51
					Inner Frame	80 x 50 x 32
DCT-S261C	750A	5A	5VA	0.5%	Outer Frame	145 x 116 x 51
					Inner Frame	80 x 50 x 32
DCT-S271C	1000A	5A	10VA	0.5%	Outer Frame	145 x 116 x 51
					Inner Frame	80 x 50 x 32
DCT-S281C	1500A	5A	10VA	0.5%	Outer Frame	196 x 146 x 51
					Inner Frame	122 x 80 x 32
DCT-S291C	2000A	5A	10VA	0.5%	Outer Frame	250 x 186 x 1.4
					Inner Frame	160.5 x 81 x 32
DCT-S2A1C	2500A	5A	15VA	0.5%	Outer Frame	250 x 186 x 51.4
					Inner Frame	160.5 x 81 x 32
DCT-S2B1C	3000A	5A	20VA	0.5%	Outer Frame	250 x 186 x 51.4
					Inner Frame	160.5 x 81 x 32





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*We reserve the right to change the information in this catalogue without prior notice.