



Automation for a Changing World

Power Meter DPM-C530A



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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.



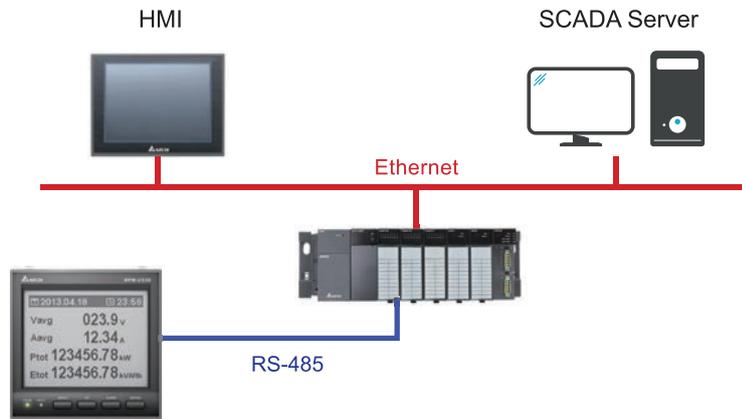
Visibility better than
segment-type LCD

Ptot 123456.78 kW
Etot 123456.78 kVARh



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

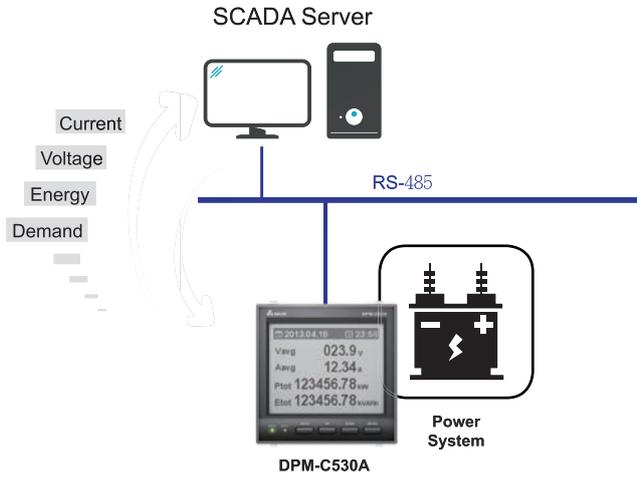
Two built-in individual data registers record real energy and reactive energy in a certain given time lapse when triggered through communication.



Features

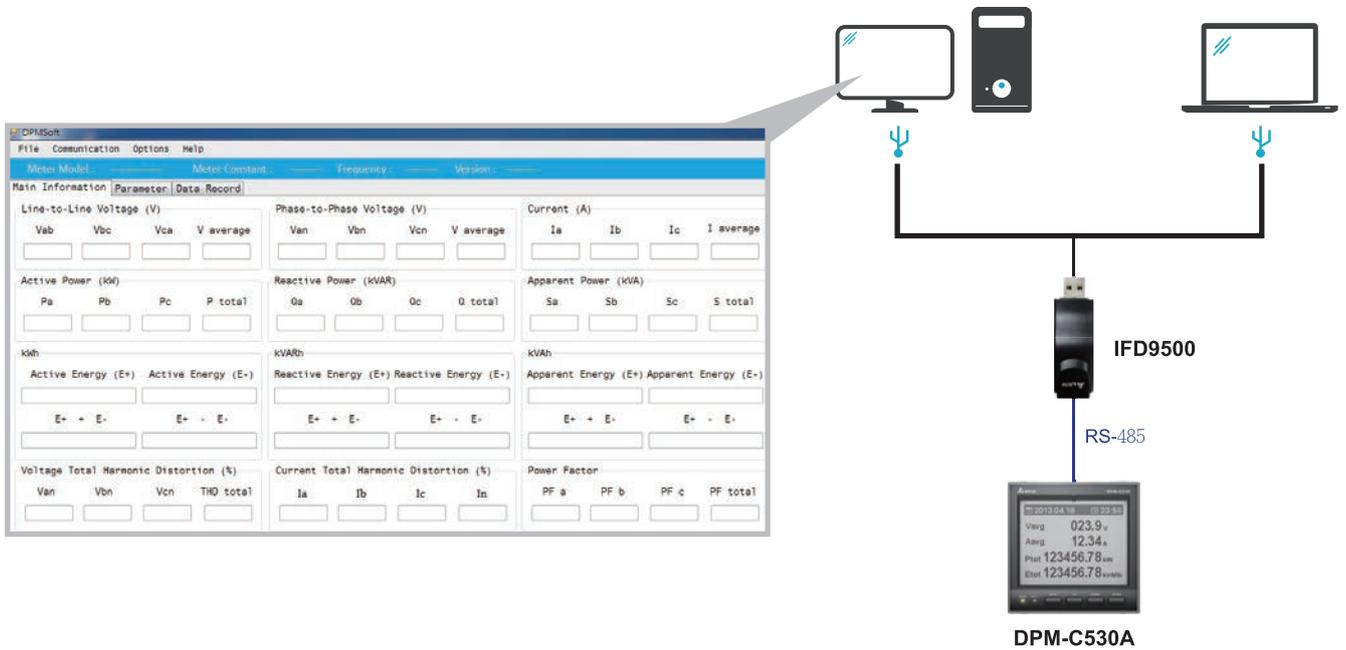
Parameter Grouping

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

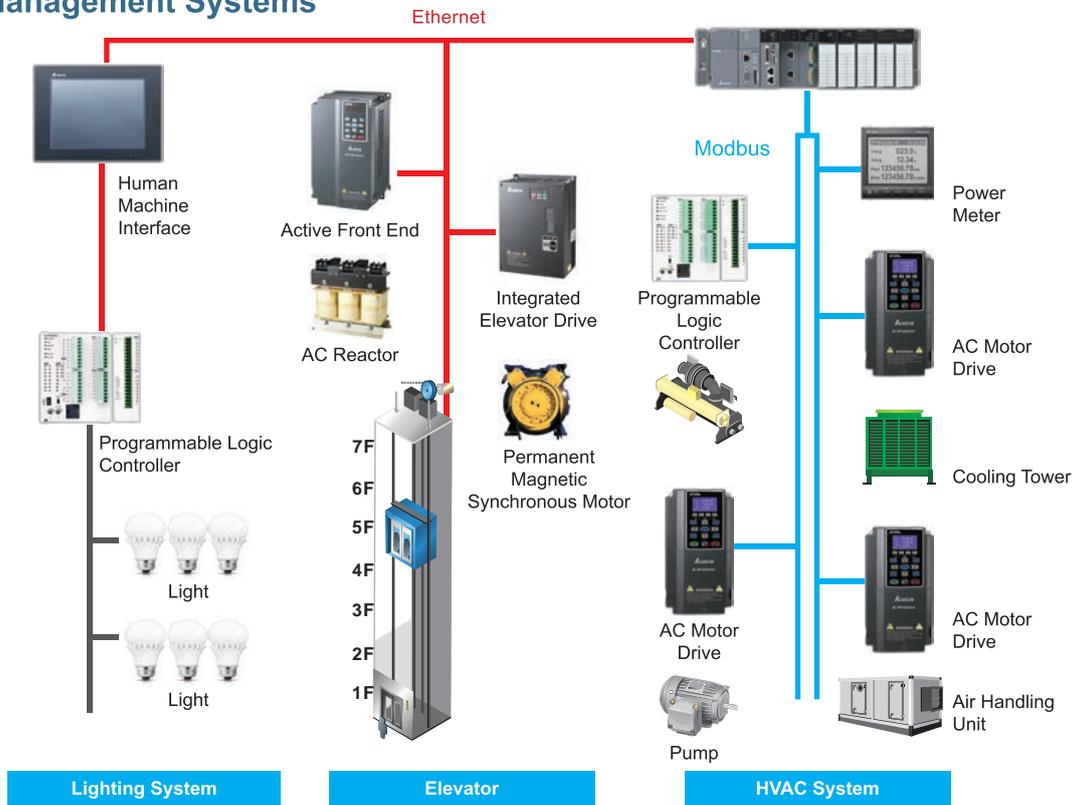
Utilizing DPMSoft software through Modbus communication for power meter setup and data acquisition provides easy power management and analysis.



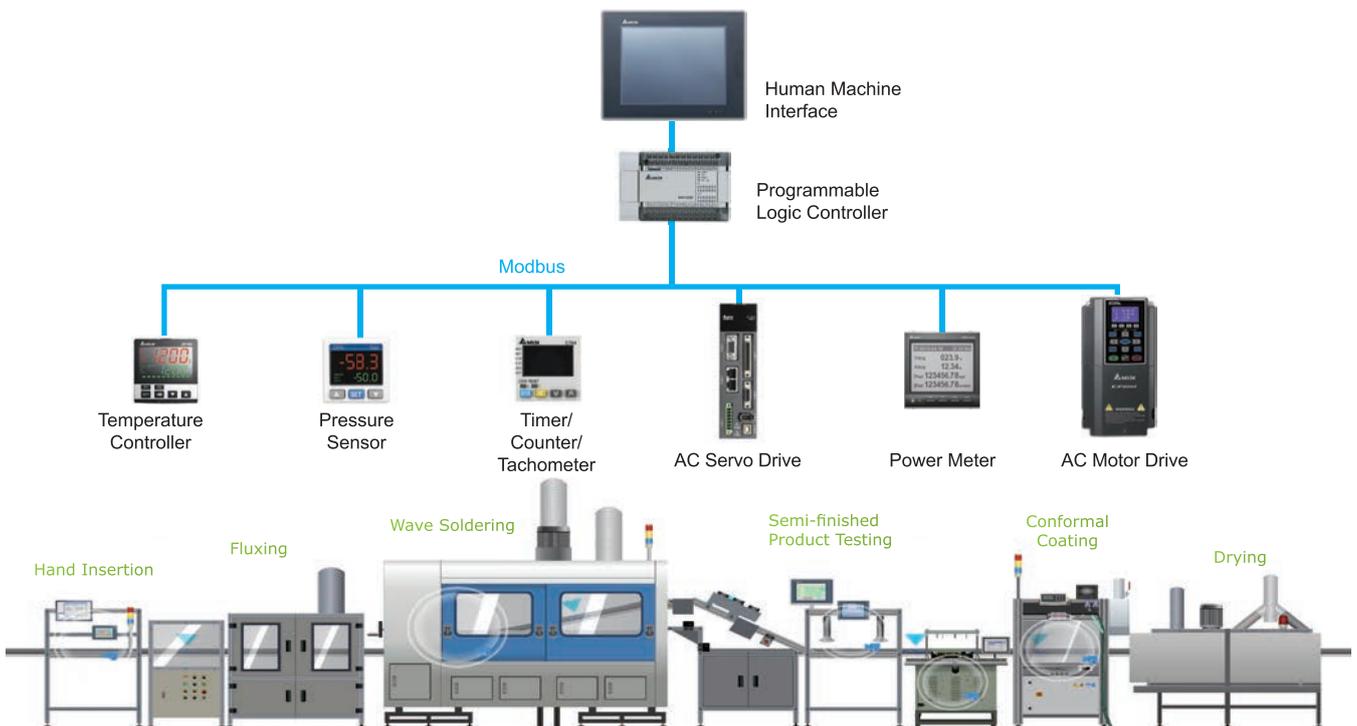
Applications

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

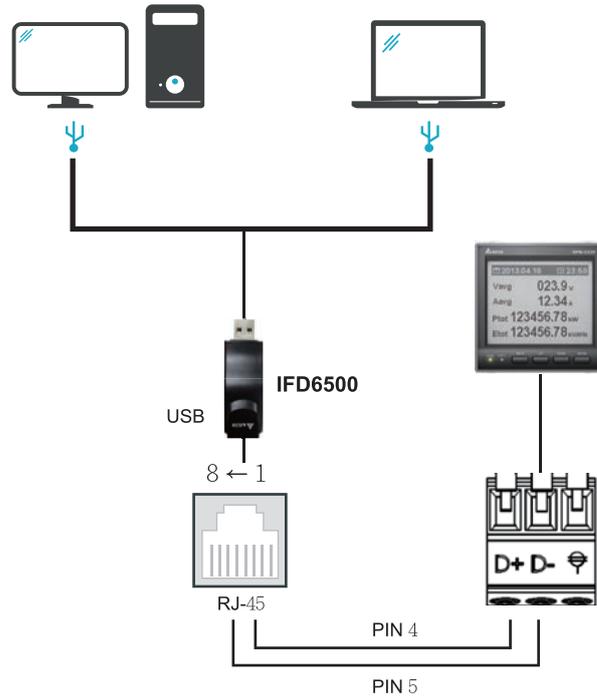
Measurement Accuracy	Power	Voltage, Current	±0.2%
		Active Power, Reactive Power, Apparent Power	±0.5%
	Electrical Energy	Active	±0.5%
		Reactive	±0.5%
	Power Factor		±0.5%
	Active Power Demand Value		±0.5%
	Reactive Power Demand Value		±0.5%
	Apparent Power Demand Value		±0.5%
	Total Harmonic Distortion 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
Case	Dimension (W x H x D)		96 x 96 x 95.4mm
	IP Degree of Protection		IP52 (Front panel), IP20 (Power meter)
Environment	Operating Temperature		-20°C ~ +70°C
	Storage Temperature		-30°C ~ +80°C
	Humidity Rating		~95% RH
	Altitude		Below 2000 m

Wiring Diagram

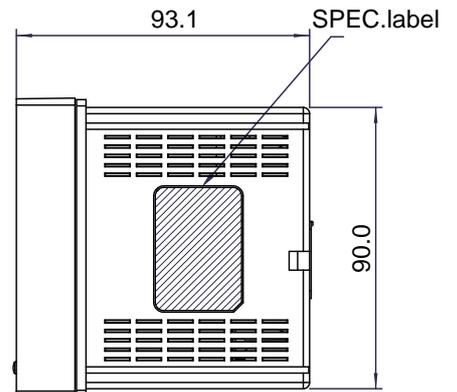
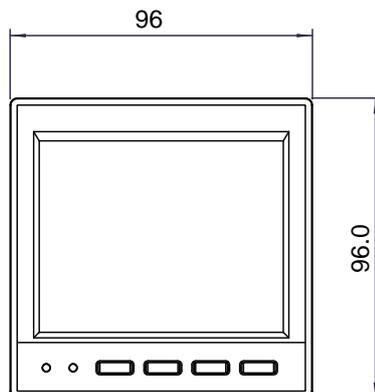
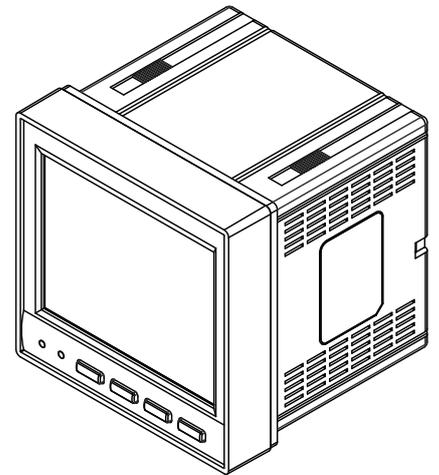
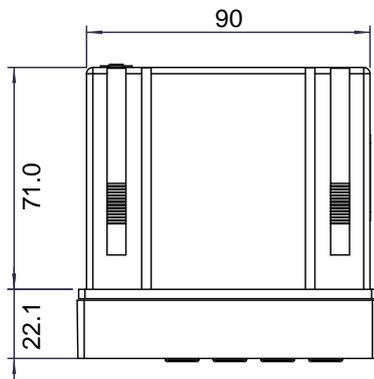
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<ul style="list-style-type: none"> 1-Phase 3-Wire (2CT) 	<ul style="list-style-type: none"> 3-Phase 3-Wire, Δ-connection (2CT, no PT) 	<ul style="list-style-type: none"> 3-Phase 4-Wire, Y-connection (2CT, 3 PT)
	<ul style="list-style-type: none"> 3-Phase 3-Wire, Δ-connection (3CT, 2PT) 	<ul style="list-style-type: none"> 3-Phase 4-Wire, Y-connection (3CT, 3 PT)

DPMSoft User Guide

PIN	Definition
1	D+
2	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



Globe Operations

ASIA (Taiwan)



Taoyuan Technology Center (Green Building)



Taoyuan Plant 1



Taoyuan Plant (Diamond-rated Green Building)

ASIA (China)

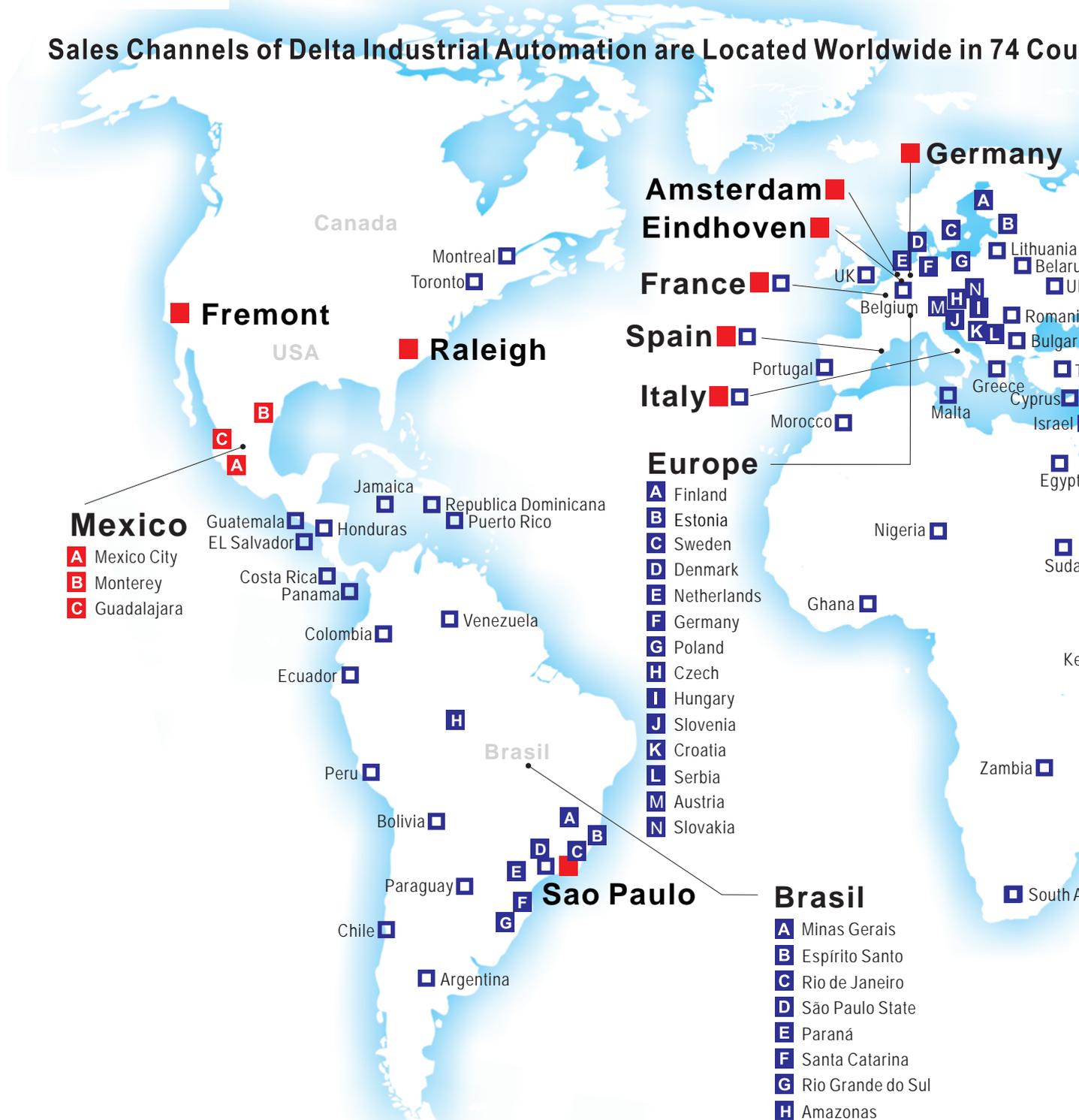


Wujiang Plant 3



Delta Electronics

Sales Channels of Delta Industrial Automation are Located Worldwide in 74 Countries



ASIA (Japan)



Tokyo Office

ASIA (India)



Rudrapur Plant
(Green Building)

EUROPE



Amsterdam, Netherlands

AMERICA



Research Triangle Park

▲ Factories 2 ■ Branch Offices 67 ● R&D Centers 5 ■ Distributors 603

ountries





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