

DIN Rail Smart Meter TO-Q-SYS Series



Communication method:
W - Wi-Fi, R - RS 485, Z - Zigbee
L - LTE, M - Matter, B - Local

Ambient Voltage:
Blank: Alternating Current
DC: Direct Current



DIN Rail Smart Meter TO-Q-SYS Series

The TO-Q-SYS series rail-mounted smart meters offer compact design, high accuracy, and LCD display for real-time monitoring of voltage, current, and power. They provide local settings, prepaid functionality, and seamless integration with automation systems.



**Remote
Control**



**Voice
Control**



**Time
Mode**



**Circuit
Protection**



**Electricity
Consumption**



**Real-Time
Power / Current / Voltage**



**Temperature
Protection**



**Operation
Log**



**DIN Rail
Installation**



**Maintenance
Mode**



**LCD
Display**

TO-Q-SYS

⚡ Over-current Protection

Threshold Setting: 1A - 50A
 Status Setting: Off/Alarm/Trip
 Tripping Response Time: 3s - 10s (Adjustable)

+⚡ Over-voltage Protection

Threshold Setting: 240V - 295A
 Status Setting: Off/Alarm/Trip
 Tripping Response Time: 3s - 10s (Adjustable)

-⚡ Under-voltage Protection

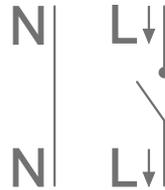
Threshold Setting: 90V - 220A
 Status Setting: Off/Alarm/Trip
 Tripping Response Time: 3s - 10s (Adjustable)

📶 Over-power Protection

Threshold Setting: 1KW - 26KW
 Status Setting: Off/Alarm/Trip
 Tripping Response Time: 3s - 10s (Adjustable)

🌡 High Temperature Protection

Threshold Setting: -25°C - 80°C
 Status Setting: Off/Alarm/Trip
 Tripping Response Time: 3s - 10s (Adjustable)



RDT+RELAY+UVP/OVP+ECM



LED Indicator

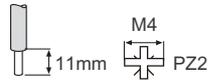
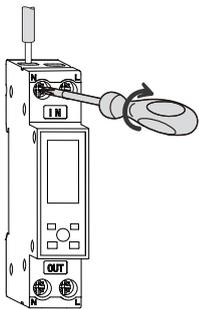
-  : The switch status LED is constantly red, indicating that the Relay is in the connected state.
-  : The switch status LED is black, indicating that the Relay is in the disconnected state.
-  : The network LED is constantly blue, indicating that the network connection is normal.
-  : The network LED is flashing blue, indicating the pairing status.

PRODUCT MODEL	TO-Q-SYS-JW	TO-Q-SYS-JZ	TO-Q-SYS-JL	TO-Q-SYS-JM	TO-Q-SYS-JB
Standards	IEC/EN 60947, IEC/EN 50557, EN 301 489, EN 300 328, EN IEC 61000				IEC/EN 60947
Wiring Mode	DPN 18mm				
Poles Description	Disconnectable L Pole, Direct N Pole				
Operating Rated Voltage	Ue (V)		AC 100 - 240V		
Frequency	Hz		50/60Hz		
Current Frame	In (A)		50		
Operational Safety	Remote setting maintenance switch: which can be set via Apps or other ports to prevent remote accidental switch activation. It requires four consecutive presses to exit maintenance mode (TO-Q-SYS-JB Not)				
Communication Protocol	TO-Q-SYS-JW	TCP/IP: Wi-Fi (2.412~2.484GHz) IEEE 802.11b/g/n			
	TO-Q-SYS-JZ	Zigbee (2.400~2.483GHz) IEEE 802.15.4			
	TO-Q-SYS-JL	LTE Cat.1: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/38/39/40/41 (2535~2655MHz) LTE-FDD: B1/B3/B5/B7/B8/B20/B28A* LTE-TDD: B38/40/41 GSM/GPRS: GSM900/DCS1800			
	TO-Q-SYS-JM	TCP/UDP: Matter			
	TO-Q-SYS-JB	Local			
Energy Consumption Measurement Accuracy	Class 1.0				
Initial Current Value	100mA				
Monitoring Physical Data	TO-Q-SYS-JW/TO-Q-SYS-JZ/TO-Q-SYS-JL/TO-Q-SYS-JM Real-time Voltage, Real-time Current, Real-time Power (Forward), Power Consumption (Forward), Switch State, Device Operating Status				
	TO-Q-SYS-JB Local Screen Display				
Function Description	TO-Q-SYS-JW/TO-Q-SYS-JZ/TO-Q-SYS-JL/TO-Q-SYS-JM Multiple Timing, Over-voltage Protection, Under-voltage Protection, Over-current Protection, Over-Power Protection, Temperature protection, Remote Control, Voice Control				
	TO-Q-SYS-JB Multiple Timing, Over-voltage Protection, Under-voltage Protection, Over-current Protection, Over-Power Protection, Temperature Protection				
Mounting Support	DIN Rail 35mm				

TO-Q-SYS



Connection



Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
1 - 50A	1.8 N.m	1 - 16mm ²	1 - 10mm ²
63A	1.8 N.m	16mm ²	/

Dimensions (mm)

