

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

Company Code
TO - Series Code
Q-SYS

Blank:
Without Metering Function
L:
With Metering Protection

Platform Technical Support:
T - Tuya, E - eWeLink
X - Mi, C - Customized
M - Tasmota

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.

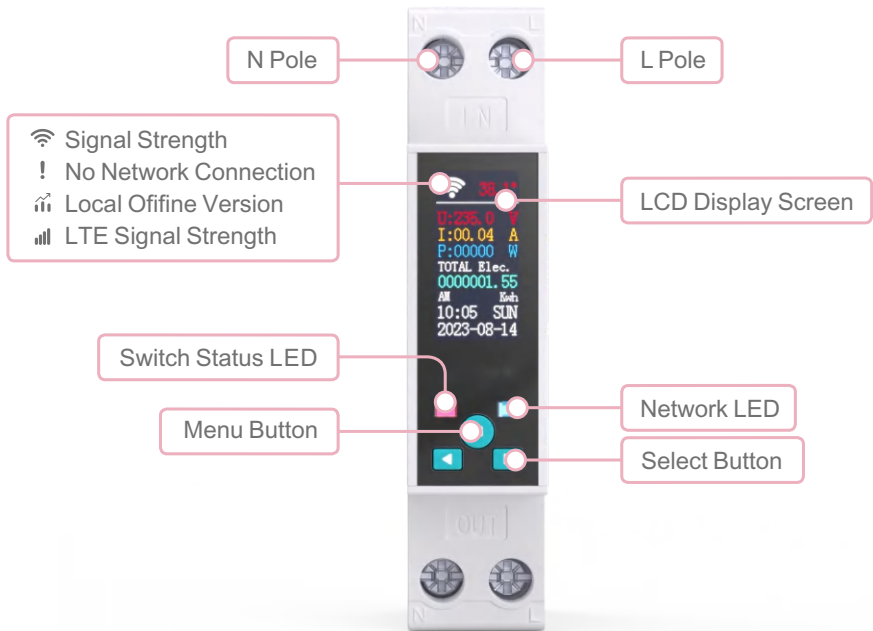
The switch status LED is black, indicating that the Relay is in the disconnected state.

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-SY2-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		
63A	1.8 N.m	16mm ²	/

Dimensions (mm)

