

IOT 10/30

IoT Wi-Fi enabled Energy Meter





Data-Driven Insights for Better Decisions.

Seamless IoT Integration

Harness the power of data to optimize your energy usage. Experience real-time energy monitoring and control with IOT 10 and IOT 30. These devices offers seamless IoT integration with your existing systems through Wi-Fi connectivity. Streamline your energy management and reduce operational costs with precise data at your fingertips.

Key Benefits of IOT 10/30

- **Real-time Monitoring:** Constant access to energy usage data, allows for immediate adjustments.
- **Wi-Fi Connectivity:** Eliminates the need for hardwired connections and simplifies deployment.
- **Scalability:** Suitable for small to large-scale installations, for 1 phase or 3 phase applications.
- **Compatibility:** Works seamlessly with existing IoT platforms and software for broader application.



Features of IOT Multi-function Meters

- IoT metering device enabled with Wi-Fi Communication
- Wide measurement range: 1 : 1000 (100mA to 100A)
- Individual phasewise energy metering and available through communication - helps branch monitoring and load analysis
- Very compact 2 DIN design
- Direct upto 100A measurement via the hanging CTs

Major Applications



Industrial/Manufacturing Plants

Real-time monitoring helps you optimize energy use, schedule preventive maintenance, and reduce operational costs across the facility.



Commercial Infrastructures

Ensure energy efficiency, meet regulatory standards, and lower costs through precise energy management of lighting loads/ HVAC, etc.



Data Centers

Monitor critical infrastructure such as servers and cooling systems to prevent failures, and optimize energy usage for cost-efficient, reliable operations.

Product Selection Guide

Parameters	IoT 10 (Single Phase)	IoT 30 (Three Phase)
ACCURACY		
Class 1.0	✓	✓
Class 0.5	[✓]	[✓]
BASIC PARAMETERS		
V	✓	✓
V12 V23 V31	-	✓
V1 V2 V3	-	✓
A	✓	✓
A1 A2 A3	-	✓
Hz	✓	✓
Angle V & A, RPM	RPM	✓
Unbalance V & A	-	✓
POWER PARAMETERS		
W	✓	✓
W1 W2 W3	-	✓
VA	✓	✓
VA1 VA2 VA3	-	✓
PF	✓	✓
PF1 PF2 PF3	-	✓
ENERGY - IMPORT		
Wh Import	✓	✓
VAh Import	✓	✓
Load Hours Import	✓	✓
Phase Energy & Load Hours (via COM)	-	✓
Power Cycles	✓	✓
ON Hours	✓	✓

✓ Available [✓]
Optional

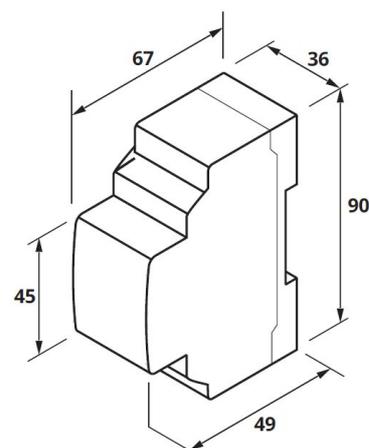


Technical Specifications

Specifications	IoT 10 - Single Phase	IoT 30 - Three Phase
GENERAL CHARACTERISTICS		
Sensing / Measurements	1 Sec True RMS	
Rated Voltage	110-300 VLN	50-550 VLL
Rated Current	100mA-100A	100mA-100A for hanging CT
Frequency	50/60 Hz	
Accuracy Class	Class 1.0	
Programmable setting	415 VLL Nominal & Primary Programmable upto 999 kV. Burden: 0.2VA Max. per phase	
CT-PT ratio max	2000 MVA programmable	
Permissible overload	120% Max	
External fuse rating	200mA	
Auxiliary supply	Self-powered for direct current, 60-300V AC/DC for CT operated	
Power Consumption	< 4VA	
COMMUNICATION (OPTIONAL)		
Device ID & Parity	1 to 125 & Odd, Even, None Parity (Preferred Even)	
Protocol & Interface	Wi-Fi Communication WiFi Protocol: 802.11 b/g/n Frequency: 2.4 GHz ~ 2.5 GHz Security: WPA/WPA2, WPA-PSK/WPA2-PSK Encryption: WEP/TKIP/AES Network Protocol: IPv4, TCP Receive Sensitivity: -83 dBm Typical	
ENVIRONMENTAL CHARACTERISTICS		
Measurement Category	CAT III (As per IEC 61010)	
Humidity	5% to 95% non-condensing	
Pollution Degree	2 as per IEC 61010	
Altitude	Below 2000m	
Insulation	Double Insulation as per IEC 61010-1	
Ingress Protection	IP51 (Front Facia)	
Operating Temperature	-10°C to + 55°C (14°F-131°F)	
Storage Temperature	-25°C to +70°C (-13°F-158°F)	
SAFETY AND STANDARDS		
Construction	IEC/EN 61010-1 edition 3, CAT III, 300V LN / 600V LL, Protection class II	
Standards	UL 61010-1, IEC/EN 62052-11	

Mechanical Specifications

MECHANICAL CHARACTERISTICS	
Torque at Terminals	1 N-m (CT Operated), 2.5 N-m (Direct Current)
Container material	Polycarbonate with V0 grade
Dimension	90mm x 36mm
Mounting	DIN rail mount
Weight	175g (<i>unpacked</i>) 250g (<i>packed</i>)



DISCLAIMER:

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