Multi Phase Energy Meter & Power Data Logger

IOT-M12CH reports Active and Reactive Energy as well as instantaneous Voltage, Current, Active Power, Apparant Power, Frequency and Power Factor per phase in real-time.
Multi-channel power measuring device utilizing split core CT's to accurately and safely measure power on single-phase to three-phase lines.

MAJOR FEATURES

■ localised and cloud acquisition

The IOT-M12CH logs data acquisition to a local 16GB Solid State memory and delivers 1 min resolution to an InfluxDB Time Serices cloud instance via 4G modem, providing professional integrators with additional options for end-customer solutions.

■ 12 Ch upscaling to 72 Ch

The IOT-M12CH accommodates up to twelve power channels for detailed, simultaneous measurement of power efficiency at various parts of equipment. The front metering unit (FMU) has a modular header design and can be easily swapped in and out by technicians. The 6 receptacle enclosure allows for a large 72 channel power measuring device. Repair and calibration can be performed on each FMU, greatly improving ease of maintenance.

■ Improved monitor sample rates

Improved display monitor feed by 12-bit 12 channel A/D converter with sampling rate of up to 12ksps per channel with comms over SPI

■ Built in Web Server

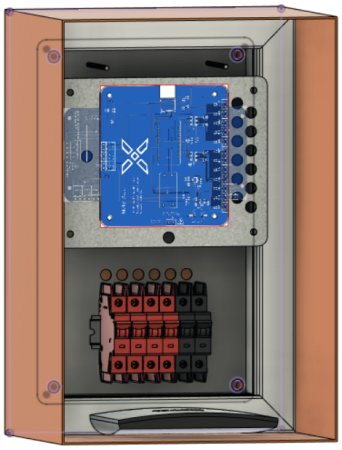
Enables live monitoring of the electrical network with the help of JavaScript (JS) charts. The charts allow for the visualization of all usage variables, including Watts, Volts, Amps, Hz, PF, and VArh. live monitoring feature provides a real-time view of the electrical network, enabling users to identify any anomalies or abnormalities in the usage data quickly. Additionally, the use of JS charts provides an intuitive and user-friendly way to view the data, making it easier for users to analyze the information and

■ AI usage forecasts (BETA)

Incororated AI Deep learning delivers accurate prediction of future client electricity usage based on historical data and consumption behavior patterns. Identification of the factors that influence a client's electricity usage, allowing for more accurate predictions.Advanced identification of potential electricity demand fluctuations, enabling energy providers to manage supply and demand more effectively.

METERX
IOT Utility Management

IOT-M12CH



1FMU pictured

MAJOR SPECIFICATIONS

Sampling Rate	: 12ksps per channel
A/D Resolution	: 12bit ea / 2 conversion channels
Voltage Input	: 85-265VAC (PSU)
	: 9VAC Peak (no load signal)
Current Input	: 50MA (current sensor input)
Number of input channles	: 12
MCU	: 80Mhz
Memory	: 4Mb flash
	: 8/16GB SD card
Wifi	: 802.11 b/g/n
Basic Power Accuracy	: ± (0.07% of reading)
	Compliant to class 0.5
Display	: Web server
External Dimensions	: 350x250x170mm (1FMU)
	: 950x700x270mm (6FMU)
Weight	: 10.9kG (1FMU)
	: 44.9 kG (6FMU)
Enclosure Rating	:IP65

APPLICATIONS

Measurment of energy, power, efficiency and loss

Measurement of various power parameters including power consumption, efficiency, and loss, in equipment.

Forecasting usage and expenditure patterns

Intergration of AI's deep learning into time series database , forecast usage patterns of power and electrcial expenditure budgeting.

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