

● **TITAN**

Precision metering. Actionable intelligence.

Utility-grade 3-phase DIN rail energy metering with built-in connectivity and cloud-ready intelligence — designed for global deployment.

Class 0.5S

Utility-grade accuracy per IEC 62053

Triple connectivity

WiFi, Ethernet and RS485 in one device

**Energy
Intelligence**

Cloud platform for actionable insights



01 The challenge

VISIBILITY, NOT JUST BILLING

Buildings consume **30–40% of global energy**, yet most operators lack visibility into where energy is actually wasted. Regulatory mandates — from the USA, EU, UAE and India — now demand circuit-level monitoring and submetering, not just building-level billing.

Track equipment runtime, duty cycles and consumption patterns to detect early signs of degradation — turning every metering point into a condition monitoring sensor.

Titan bridges this gap: utility-grade accuracy meets IoT connectivity in a compact DIN rail form factor, purpose-built for energy monitoring and efficiency in real time.

Built-in CO₂ tracking

Real-time CO₂ emissions from configurable grid emission factors — Scope 2 data ready for ESG reporting, CSRD compliance and green building certification, with no additional software.

Edge computing

On-device logging, demand profiling, TOU registers and real-time edge analytics. The device acts when voltage, current or harmonics exceed thresholds — up to cutting supply.

Cost savings

Titan pays for itself. Granular sub-metering finds the waste bulk billing misses — phantom loads, inefficient schedules, power factor penalties and overprovisioned circuits.

Faster deployment

Technicians deploy and configure Titan in minutes from their phones — no expensive field laptops required.

02 Why Titan

Utility-grade accuracy

Class 0.5S per IEC 62053 — revenue-grade metrology.

Additional sensors

Poll external sensors over RS485 for fuller condition data.

Connectivity & futureproofing

Modbus RTU/TCP and MQTT over WiFi, Ethernet or RS485.

Global compliance

Designed for IEC type-test certification worldwide.



Technical specifications

TITAN · 3 PHASE 4 WIRE

MEASUREMENT

Accuracy class (active)	Class 0.5S
Accuracy class (reactive)	Class 2.0
Voltage range	48–500 V AC
Current range	100 / 200 / 400 / 800 A
Frequency	50 / 60 Hz
Parameters	V, I, P, PF, f, kWh, kvarh, kVAh
Advanced metrics	Earth leakage, load hours, max demand, power cycles
Harmonics	Up to 31st, per phase
Phases	3P4W or single phase × 4
Dual source	DG generation calculations

COMMUNICATION

Internet	WiFi & Ethernet
Wired / local	RS485 (master or slave)
Protocols	Modbus RTU/TCP, MQTT

MECHANICAL

Mounting	DIN rail
Display	3 row
Dimensions	98 × 69 × 71 mm (5 modules)
Enclosure	Self-extinguishing UL94 V-0
IP rating	IP51 (front face)
Operating temp.	–25 °C to +55 °C

DATA & LOGGING

Load profile	Configurable 1–60 min
Configuration	Dashboard or phone app
Tariff registers	Up to 8
Maximum demand	Block / sliding window
Event log	U/V, O/V, over-current, power cycles, harmonics, on/off, runtime

STANDARDS

IEC 62052-11 · IEC 62053-21/22 · IEC 61010 · IEC 61000 EMC

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