High-Precision Metering Panel ATN-400

POWER SYSTEM PROTECTION EQUIPMENT



This legal power trading metering panel is directly used for electricity fee settlement. With double-layer sealed structure, anti-prying screws and one-time lead seals, it prevents data tampering and fully complies with DL/T 448 standards.

KEY FEATURES

- 11kV/22kV Power Monitoring SCADA Cabinet
- 87B Busbar Differential Protection Panel Introduction
- ATN-400 Transformer protection panel
- RTU Communication Panel | Substation Communication Panel ATN 400

COMPOSITION & STRUCTURE

Component	Description
Cabinet Body	Made of powder-coated cold-rolled steel plate with IP30 protection rating. It features a front single-opening glass door for convenient meter reading and a rear double-opening metal door for easy equipment maintenance.
Energy Meters	Core metering devices mounted on the panel front, compatible with electronic and smart kWh meters to meet diverse grid metering requirements.
Acquisition Terminal	Specialized data acquisition equipment for remote meter reading and real-time energy data upload.
Instrument Transformers	Metering-grade CT/PT installed inside the rear cabinet, connected to energy meters via standardized secondary cables.
Terminal Blocks	Adopts Phoenix or equivalent high-quality terminals, ensuring standardized, neat and safe wiring.

Component	Description
Auxiliary Equipment	Optional accessories include power quality monitor, control switch, encryption device, server and other supporting components.
Anti-Theft Design	Equipped with a double-enclosed protective structure and tamper-proof screws on both front and rear sides, effectively preventing electricity theft and data tampering.

MAIN FUNCTIONS

Function	Description
Energy Metering	Accurately measures active and reactive energy, serving as the authoritative basis for official electricity billing and tariff settlement.
Data Acquisition & Upload	Automatically collects and uploads metering data to power dispatch systems and marketing management systems through the acquisition terminal.
Gateway & HV Metering	Provides high-precision metering for key grid gateway points, including the high-voltage side of main transformers and startup/backup transformers, applicable to all high-voltage metering scenarios.
Anti-Electricity Theft	The integrated tamper-proof and fully enclosed structure prevents manual data modification and effectively avoids electricity theft risks.
Power-off Data Protection	Built-in data retention function ensures that recorded energy data will not be lost after external power interruption.
Communication & Networking	Supports RS485 and Ethernet communication protocols, and can be seamlessly connected to DCS, NCS and dispatch data networks to adapt to smart grid operation requirements.

ORDERING INFORMATION

MOQ	LEAD TIME	TRADE TERMS	PAYMENT	WARRANTY
1 unit	7-15 working days	EXW / FOB / CIF / DDU	T/T, L/C, WU, PayPal	12 months