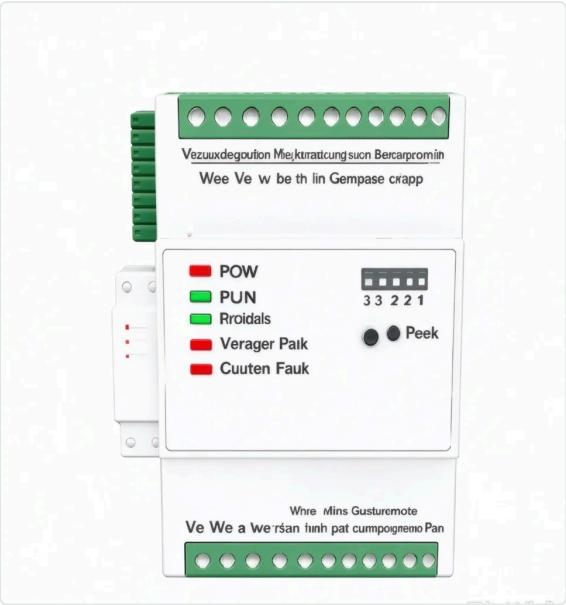
27L low voltage current monitoring with Power Quality & Waveform Recording

POWER SYSTEM PROTECTION EQUIPMENT



The ATN-343H adopts an industrial-grade microprocessor as its core with high processing speed. It can achieve high-precision measurement of basic parameters including three-phase voltage, three-phase current and zero-sequence current, and is also equipped with power quality monitoring, waveform recording, low voltage fault monitoring and low voltage grid monitoring functions. Communication Mode:Optional: RS-485

KEY FEATURES

- High-accuracy grid frequency detection ASR-245H
- Portable Power Quality Meter 11/35
- Smart Switchgear Controller ADW6800
- 43 Automatic Transfer Switch (ATS) / High-Speed ATS

LOW-VOLTAGE MONITORING AND DATA ACQUISITION MODULE

Function	Description	Remarks
Basic Measurement	Three-phase phase voltage & average value, three-phase line voltage & average value, three-phase current & average value, zero-sequence current (on-site collection or three-phase calculation optional, on-site collection by default); three-phase active power & total value, three-phase reactive power & total value, three-phase apparent power & total value, three-phase power factor & total value, frequency, calculated neutral current, one group of temperature measurement	
Energy Metering	Three-phase and single-phase energy data:Forward active energy, reverse active energy, total active energy, net active energyForward reactive energy, reverse reactive energy, total reactive energy, net reactive energyFour-quadrant reactive energy, apparent energy, TOU energyMonthly energy values of the latest 12 months available for three-phase energy	
Power Quality	Fundamental wave data: power factor & total value, active power & total value, three-phase voltage/current phase angleHarmonic data:Total harmonic active powerOdd-order, even-order and total harmonic distortion rate of three-phase voltage/currentIndividual harmonic distortion rate of 2nd~11th order for three-phase voltage/currentK-factor of three-phase currentOdd-order, even-order and total TDD of three-phase currentCrest factor of three-phase currentVoltage/current unbalance degree	
Demand Function	Real-time demand of three-phase current, total active power, total reactive power and total apparent powerCurrent month maximum demand and time stamp of above parametersCurrent month maximum demand and time stamp of total active/reactive/apparent power in different tariff periodsLast month maximum demand and time stamp of three-phase current, total active/reactive/apparent powerLast month maximum demand and time stamp of total active/reactive/apparent power in different tariff periods	
Time-of-Use Tariff	Supports setting 12 billing seasons, 20 tariff tables, 12 daily time periods, 4 billing day types, 90 special days and 8 tariff ratesDual sets of schemes available for billing seasons, daily periods and special days	
Event Recording	10 event records with 1ms resolution; including DI status change, DO action, residual current alarm, temperature alarm, limit violation, self-check, event clearing, etc.	

Function	Description	Remarks
Setting Value Over-limit	Up to 2 groups of over-limit settings; monitors voltage, current, neutral current, frequency, temperature and other variables; supports SOE generation and DO action triggering	
Data Freezing	60 daily freezing records and 36 monthly freezing recordsFreezes device energy and demand data, and records freezing data & time	
Communication Mode	Standard equipped with 1 RS-485 port; LoRa and Zigbee are optionalProtocol: MODBUS-**RTU**Baud rate: 1200/2400/4800/9600/19200/38400bpsSupports reading and writing module parameters and settings via MODBUS-RTU; supports remote fault reset, remote control, waveform recording trigger, time synchronization, restart and other commands	
Basic Statistical Data	Statistics on voltage swell times, voltage sag times, short-time power interruption times, etc. Data stored in the module in file or table form for access by communication platform	
Fault Waveform Recording	Cyclic storage of at least 4 groups of waveform data with upload functionTrigger conditions: **overcurrent fault**, line voltage loss, overvoltage, sudden change of zero-sequence current, etc. Parameters configurable locally and remotelyWaveform data includes no less than 4 cycles before fault occurrence and 8 cycles after fault occurrence; no less than 20 sampling points per cycle; contains voltage, current and switch status (with DI/DO module)	Stored in standard format complying with Comtrade 1999 (GB/T 22386-2008). Only CFG (ASCII configuration file) and DAT (binary data file) are adopted

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