

Data Concentrator TD 12



Operation Manual



**Low Power
Consumption**

Parameter	Value
Meter Format	3P3W/3P4W
Voltage range	110-240V
Frequency	50Hz/60Hz
Operation rated voltage	3X220/380V
Power supply type	AC three-phase power supply
Downlink Communication	HPLC, HPLC+RF, G3-PLC, G3-PLC+RF, RS485; HPLC: Frequency: 0.7MHz ~ 12MHz; Communication Rate: 1024 Kbps; Modulation mode: OFDM; G3-PLC: Frequency: FCC or Cenelec-A; Modulation mode: OFDM
Uplink Communication	4G/GPRS; GPRS/GSM: 850/900/1800/1900MHz; UMTS: B1/B2/B4/B5/B8; LTE TDD: B38/B40/B41; LTE FDD: B1/B2/B3/B4/B5/B7/B8/B10/B28/B66; model: N75LA-T; IMEI: 861712048420416; Ethernet; RS232
Mechanical vibration strength	Frequency range: 10Hz ~ 150Hz
Storage capacity	2Gbyte FLASH
Operating temperature range	-40°C ~ +70°C (3K7)
Storage and transport temperature range	-20°C ~ +60°C
Relative humidity	<95% (non-condensing)
Ingress Protection Rating	IP51
Communication gateway	Protocol conversion, data acquisition functions between the different physical communication medium of uplink / downlink protocol
Data transmission	Support passive query and active push
System capacity	1000 meters or metering equipment
Physical Dimensions	302mm × 145mm × 110mm
Weight	4.0kg
Feature	Modular in design, LCD and module support plugged and play; Anti-Tampering: Bypass, Magnetic Field, Meter/Terminal cover open, Missing phase; Encrypted communication; Flexible combination scheme; Event log and load profile; Last gasp



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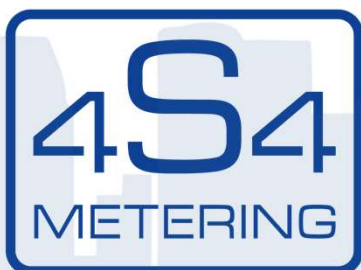
Standard

Parameter	Value
IEC 60870-5-102	Systems - Part 5: Transmission protocols - Section 102: Companion standard for the transmission of integrated totals in electric power systems
IEC 62056-46	Electricity metering - Data exchange for meter reading, tariff and load control - Part 47: Data link layer using HDLC protocol



Electrical requirements

Parameter	Value
Power consumption	<2W (non-communication state, total active power consumption); <3.3W (110V power supply, total active power consumption)



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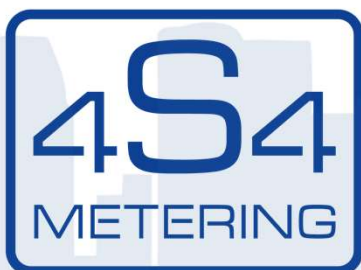
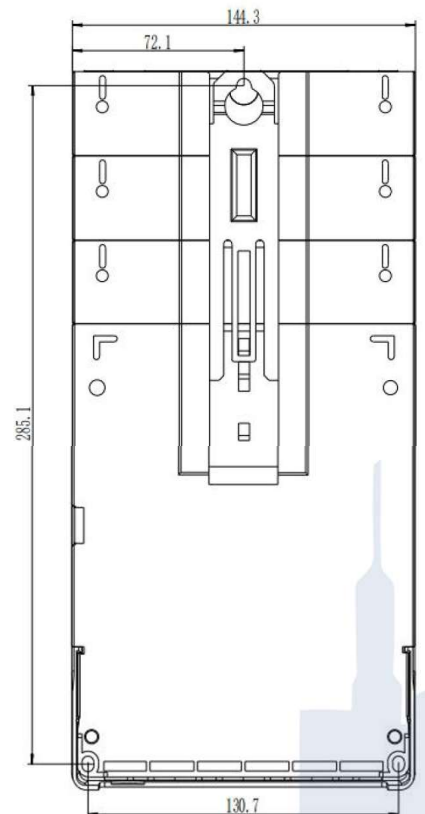
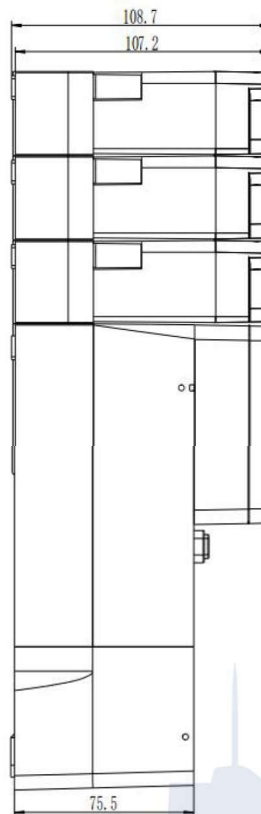
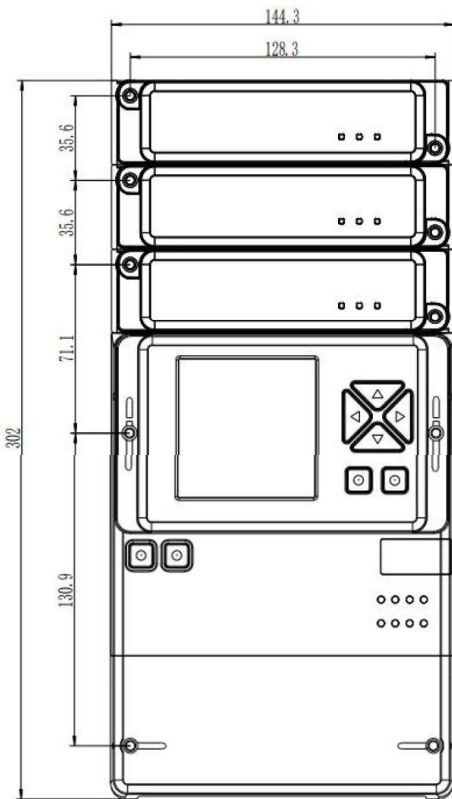
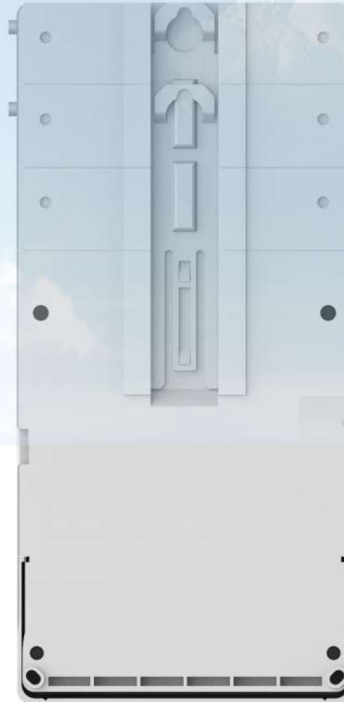
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Dimensions



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