



COMTECH

TC25E

Technical specifications

Measurement and electrical data

Meter configuration	Three-phase, four-wire smart meter, with direct connection
Reference voltage	3 × 230/400 V
Operating voltage	0.8 Un - 1.2 Un
Current range	0.25–5(80) A
Starting current	0.004 Ib
Reference frequency	50 Hz (±5%)
Accuracy class	Class B (active); Class 2 (reactive)
Clock accuracy	±0.5 s/day at 23 °C
Pulse constant	1000 imp/kWh; 1000 imp/kvarh (configurable)
Relay	UC3

Environmental, physical and communication data

Operating temperature	-40 °C - +70 °C (3K7)
Storage and transport temperature	-40 °C - +70 °C (3K7)
Relative humidity	≤ 95% (non-condensing)
Ingress protection	IP54
Communication interface (optional)	Optical / P1 / RS485
Communication module (optional)	GPRS / 4G / CAT-M
Physical dimensions	275.3 × 170 × 87 mm
Terminal hole diameter	9.0 mm
Weight	approx. 1.8 kg

Display (LCD)

Main character size	6 × 11.5 mm
Energy display	6 + 0 digits
Display mode	Automatic / manual / power-down scroll
Data items	OBIS

Insulation and overvoltage

Insulation system
Class II

Overvoltage withstand
440 V AC / 4 h; 600 V DC / 1 min

AC voltage test
4 kV / 1 min

Impulse voltage test
8 kV

EMC tests

ESD - contact
8 kV

ESD - air
15 kV

Surge immunity
4 kV

Electrical fast transient test
4 kV

Electrical requirements

Voltage circuit power consumption
< 2 W, 10 VA

Current circuit power consumption
< 0.15 VA



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Functions and interfaces

Measured parameters

- Import/export active energy
- Import/export reactive energy
- Four-quadrant (4Q) reactive energy
- Apparent energy
- Voltage / current / frequency / power / power factor

Tariffs and load control

TOU - time-of-use tariff management

- Up to 4 tariffs
- Up to 12 season tables and 8 week tables
- Up to 8 day tables, each with up to 12 time periods
- Up to 100 special days / holidays

Maximum demand

- Programmable interval: 5, 10, 15, 20, 30 or 60 minutes (optional)

Load control

- Remote control; local control; load/demand limiter control

Event logs

- Standard event log
- Tamper detection log
- Disconnecter control log
- Power quality event log
- Up to 100 timestamped records per event category

Load profile

- 2 independent profiles
- Up to 10 channels per profile
- More than 60 days of storage per profile at 15-minute intervals

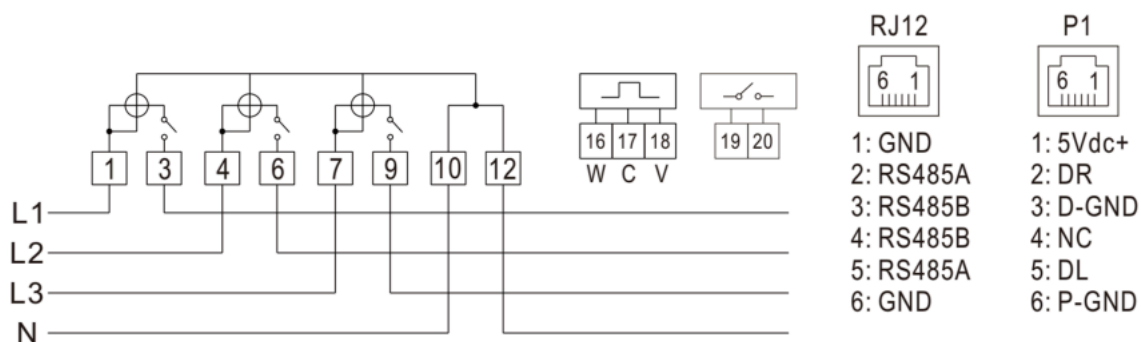
Tamper detection

- Main, terminal and module cover removal detection
- Strong magnetic field detection

Compliance and standards

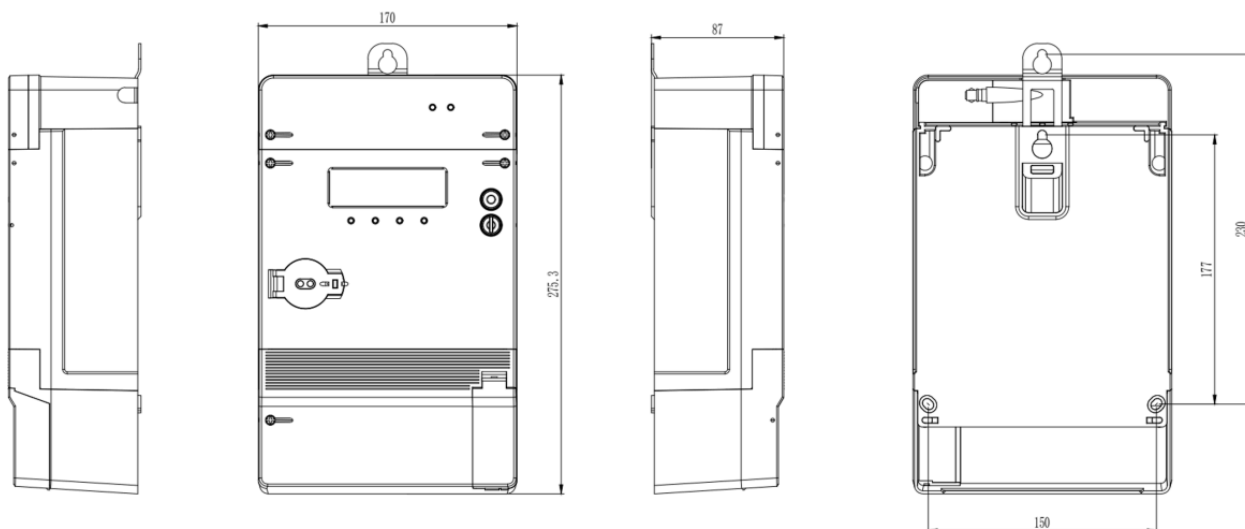
EN 50470-3 • IEC 62052-11 • IEC 62053-21/24 • IEC 62052-31 • IEC 62056-21/42/46/47/53/61/62 • DLMS/COSEM

Connection diagram

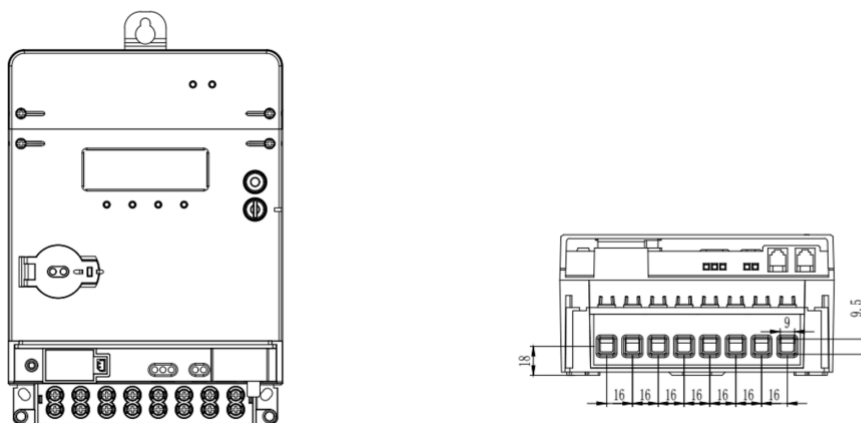


Dimensions and connections

Dimensions



Terminal layout / diagram



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