

BASIC MT174

Polyphase multi-tariff meter

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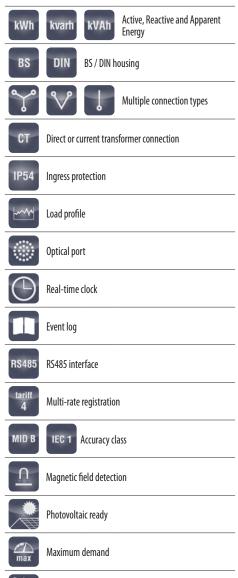
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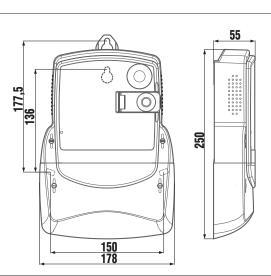
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With a future-proof design the Polyphase MT174 is ready to suit many diverse customer requirements. High quality manufacturing process enables the meter to deliver the performance, expected in residential and small commercial environments. It includes a wide variety of functionalities:

- Extensive anti-tampering features
- Import/export energy management
- Photovoltaic friendly design
- RS communication interface
- Up to four tariff models
- Extended load profile
- Time-of-use (TOU) internal tariffication

Meter dimensions





BASIC MT174 Polyphase multi-tariff meter

Type overview			MT174-D1 BS	MT174-D1 Din	MT174-D2 BS	MT174-D2 DIN	MT174-T1 CT
Network		Low voltage	•	•	٠	•	•
Connection type		3P2W	•	•			
		3P4W			•	•	•
Communication		RS485	•	•	٠	•	•
		Optical port	•	٠	•	•	٠
Input – output options	Output SO		•	•	•	•	•
	Output OPTOMOS		•	•	•	•	•
	Tariff input (1 or 2)		•	٠	•	•	•

Technical specifi	cotions							
rechnical specifi	MT174-D1 BS	MT174-D1 Din	MT174-D2 BS	MT174-D2 Din	MT174-T1 CT			
Nominal voltage	Un	3x230/400 V, 3x230 V, 230 V, 3 x 400 V						
Voltage range		0.8 – 1.15 Un						
Reference frequency		50 Hz or 60 Hz						
	Base current lb	5A or 10A				1 A		
Current	Starting current Ist	5/ 10	20 mA					
	Maximal current Imax		6 A					
	Active energy	Class 2 or Class 1 A or B (EN 50470 - 3, IEC 62053-21 or -23)				ır -23)		
Accuracy class	Reactive energy	Class 3 or Class 2						
	Apparent energy	Class 3 or Class 2						
Real-time clock	Accuracy	Better than ± 3 min/year at 23 °C						
Real-time clock	Back-up power supply	Li battery: 5 years, life time up to 20 years						
Temperature ranges	Operation	-40 °C +60 °C; extended -40 °C +70 °C						
(IEC 62052-11)	Storage	-40 °C +80 °C						
Ingress protection IEC	IP54							
Liquid Crystal Display	.P +AQ .P L1 L2 L3 GKWAhh .PQ .VQ .VQ .VQ .VQ .VQ .VQ .VQ .VQ							

SMS Metering Ltd - SolarCorner 41 London Road, Castle Court, Reigate RH2 9RJ T: 0845 604 7244 E: info@smsmetering.co.uk W: www.smsmetering.co.uk Basic functionality

Measurement features

- Two way ("energy") measurements
- Active, Reactive and Apparent energy and demand in 3-phase 4- and 3-wire networks
- Measurement by phases and polyphase, quantities of measurement: Voltages by phases, Currents by phases, Power factors by phases, Frequency
- Measurement of instantaneous power

Tariff functions

 Time-of-use (TOU) measurement of active energy and maximum demand (up to 4 tariffs, 10 seasons, 10 weekly programs, 10 daily definitions, 10 tariff change over inside individual daily tariff programs, 46 holidays)

Load profiles

- Load profile recorder with up to 8 channels
- Possibility to set the recording period on 5, 10, 15, 30, 45 or 60 minutes

Communication

- IEC 1107 compliance
- Two communication interfaces:
 - Optical port
 - RS485

Real-time clock (RTC)

- Compliant with IEC 62054-21 standard
- RTC with calendar, based on 32 kHz quartz crystal
- RTC accuracy: better than ±3 min/year, operation reserve: 5 years, expected Li battery life time: 20 years
- Counter of elapsed time of RTC operation
- Li battery enables data display on LCD when meter is in no-power state

Specifics

- Backlit LCD display
- Detection of opening main and terminal cover
- External magnetic field detector
- Detection of meter wiring
- Photovoltaic ready
- Secured communication channels
- Load profile on LCD
- Change of set parameters protected with a sealed pushbutton
- Indication of low Li battery

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