

MT174

POLYPHASE MULTI-TARIFF METER.



A polyphase multi-tariff meter with a future-proof design, the MT174 is ready to meet diverse customer requirements.

A high-quality manufacturing process enables the meter to deliver the performance expected in residential and small commercial environments.

FEATURES

- Extensive anti-tampering package.
- Photovoltaic ready design.
- RS485 communication interface.
- Up to four internal tariffs.
- Up to four external tariff changeovers.
- Extended load profile.

KEY BENEFITS

- Communication via an optical or RS485 port.
- Measurement of instantaneous voltage, current, power, and power factor.
- On-site meter configuration.

- Neutral line energy measurement.
- Up to four external tariff changeovers.
- Sleeping (passive) tariff program.
- High immunity against strong magnetic fields.
- Multiple event logs with energy fraud registers.
- Effective network quality management.
- Energy loss detection.
- Two extensive load profiles.
- Registration of manipulation attempts.
- No-power reading option.
- Maximum demand measurement.
- Sleeping (passive) tariff program.

		MT174-D1 DIN	MT174-D2 DIN	MT174-T1 DIN
TYPE OVERVIEW				
Network	Low voltage	•	•	•
Connection type	3P2W	•	•	
	3P3W	•	•	
	3P4W	•	•	•
Communication	RS485	•	•	•
	Optical port	•	•	•
TECHNICAL SPECIFICATIONS				
Nominal voltage U_n		120 V, 3x120, 3x230/400 V, 3x230 V, 230 V, 3x400V		3x230/400 V, 3x230 V
Voltage range		0.8 – 1.15 U_n		
Current	Base current	lb, ln	5 A or 10 A	1 A
	Starting current	Ist	5 A => Class 2: 0.025 A, Class 1: 0.02 A 10 A => Class 2: 0.05 A, Class 1: 0.04 A	2mA
	Maximal current	I _{max}	85 A, 120 A	6 A
Accuracy class	Active energy		Class 2 or Class 1 (IEC 62053-21 or -23) A or B (EN 50470 - 3)	
	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	
	Back-up power supply		Li battery : 5 years, life time up to 20 years	
Temperature ranges (IEC 62052-11)	Operation		-40°C ... +70°C	
	Storage		-40°C ... +80°C	
Ingress protection IEC 60529		IP54		

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