

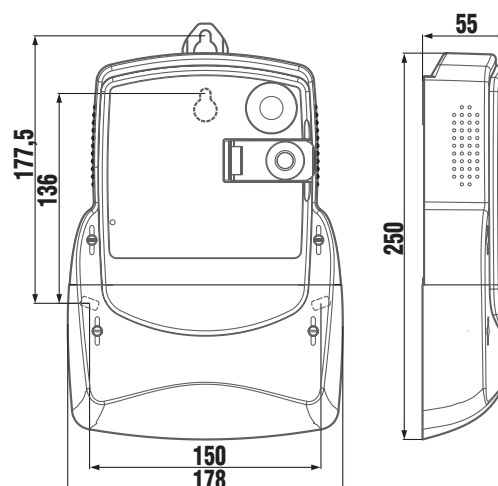


kWh	kvarh	kVAh	Active, Reactive and Apparent Energy
DIN	DIN housing		
			Multiple connection types
CT	Direct or current transformer connection		
IP54	Ingress protection		
	Load profile		
	Optical port		
	Real-time clock		
	Event log		
RS485	RS485 interface		
tariff 4	Multi-rate registration		
MID B	IEC 1	Accuracy class	
	Magnetic field detection		
	Photovoltaic ready		
	Maximum demand		
	4 Quadrant measurement		


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
- Photovoltaic friendly design
- RS communication interface (RS485)
- Up to four tariff schemes
- Extended load profile
- Time-of-use (TOU) – internal tariffication

Meter dimensions



BASIC MT174 Polyphase multi-tariff meter

			MT174-D1 DIN	MT174-D2 DIN	MT174-T1 DIN
Type overview					
Network	Low voltage		●	●	●
Connection type	1P2W		●	●	
	3P3W		●	●	
	3P4W		●	●	●
Communication			RS485, Optical port		
Input – output options			Output S0, Output OPTOMOS, Tariff input (1 or 2)		
Technical specifications					
Nominal voltage	Un		3 x120 V, 3 x 230/400 V, 3 x 230 V, 230 V, 3 x 400 V		3 x 230/400 V, 3 x 230 V
Voltage range			0.8 – 1.15 Un		
Reference frequency			50 Hz or 60 Hz		
Current	Base current	Ib	5 A or 10 A		1 A
	Starting current	Ist	5A => Class 2: 0.025 A, Class 1: 0.02 A 10A => Class 2: 0.05 A, Class 1: 0.04 A		2 mA
	Maximal current	Imax	85 A	120 A	6 A
Accuracy class	Active energy		Class 2 or Class 1 (IEC 62053 - 21 or IEC 62053 - 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 ... +60 °C; extended -40 °C ... +70 °C		
	Storage		-40 °C ... +80 °		
Ingress protection IEC 60529			IP 54		
Liquid Crystal Display					
Basic functionality					
Measurement			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 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		
Specific					
Backlit LCD display, Detection of opening main and terminal cover, External magnetic field detector, Detection of meter wiring, Secured communication channels, "Scroll" pushbutton and covered "Reset" pushbutton					
Optional					
RTC, Load profile, RS485 interface, Inputs/Outputs					

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