



MT300

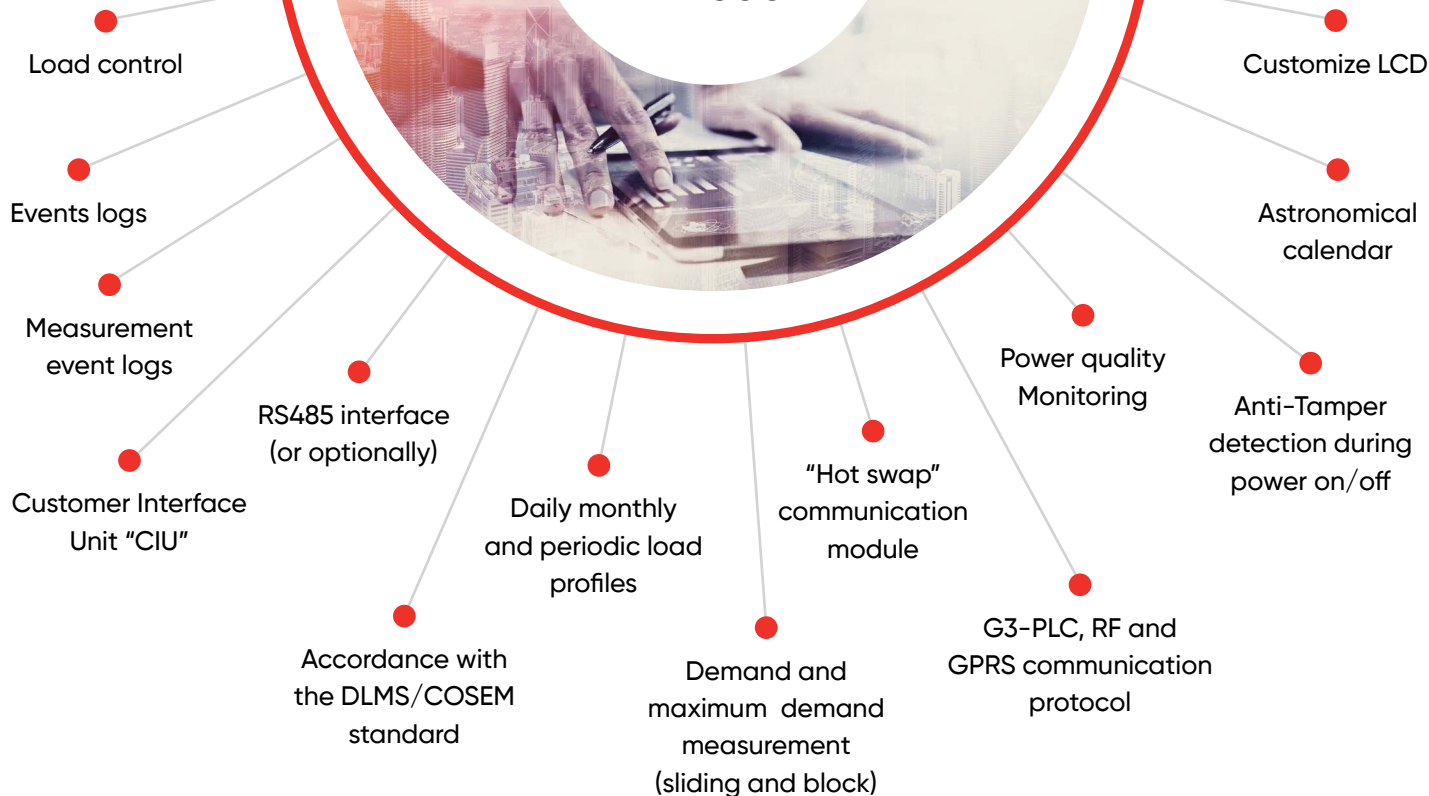
Three phase smart meter

The MT300 three-phase smart meter is intended for measuring electrical energy in residential and industrial applications. Isolation of the current sensor from the live conductor ensures excellent immunity against overvoltage, overcurrent and other mains-borne disturbances. Compact design ensures high immunity against tampers and mechanical shocks during handling or transport. The meter covers a wide range of applications due to excellent measurement and functional characteristics.

- Two modes of payment: prepayment and post-payment functionality (Step tariff or TOU)

- Protected against over-voltages and high frequency disturbances
- Optical communication port complies with IEC62056-21 module-E protocol and supports local data exchange and reading
- Remotely and locally Firmware upgrade, in accordance with section 4.4.4 of the DLMS/COSEM Identification System and Interface Classes, Blue Book 10th Edition
- Bidirectional metering for import/export active energy, and 4 quadrants reactive energy, instantaneous voltage and current, active/reactive/apparent power

MT300



MT300

TYPE OVERVIEW

Network	Low voltage	•
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TECHNICAL SPECIFICATIONS

Nominal voltage U_n		3X220 V/416V
Voltage variation		+30% to -40%
Frequency		50Hz \pm 5%
Current	Base current I_b	5 A
	Starting current I_{st}	4% I_b
	Maximal current I_{max}	100 A
Accuracy class	kWh	Class C
	kVarh	Class 2
Power consumption	Voltage circuit	\leq 2 W, 10 VA
	Current circuit	\approx 0.02VA
Temperature ranges	Operation	-40 °C ~ + 70 °C
Pulse constant		800 imp/kWh, 800 imp/kVarh
Clock accuracy		\leq 0.5 sec/day
Relative humidity		\leq 95%, non-condensing
Protection	Ingress	IP54
	Insulation	Class II