



AM550

Modular Electricity meter



Direct or current transformer connection Ingress protection Load profile

Optical port

IP54

Real-time clock

Event logs





DLMS - COSEM compliance **IDIS** interoperability G3-PLC

Multi-rate registration

Accuracy class

Remote connection/disconnection

Photovoltaic ready

M-Bus communication

Modular Communication

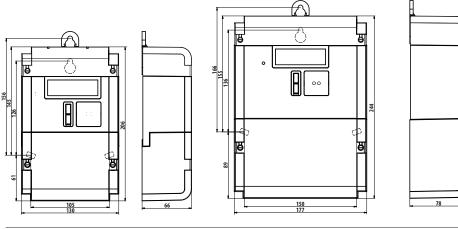
Alarming

Iskraemeco's next generation AM550 smart meter, with an innovative platform approach enables seamless integration of next generation smart metering functions into the smart grid. It is optimized for smart residential and mid-size commercial environments and assures maximum flexibility with:

- Universal standardized transparent passthrough communication interface
- Optimized new metrology base with a powerful "Measure Everything" measuring concept
- Modular communication on WAN (P3) and HAN (P1) level

- FW upgradeability of communication modules (P3 port)
- Backward compatible PLC modules
- Flexible memory capacity availability
- Extended set of embedded Smart Grid functions
- Integrated high level security mechanisms
- Flexible set of input/output options
- Sub-metering support and data forwarding over various HAN and WAN communication paths

Meter dimensions



SMART AM550 Modular Electricity meter

		AM550-E		AM550-T	
		Туре о	verview		
Network	Low voltage	•		•	
Connection type	1P2W	•			
	3P4W	•			
Communication		Optical port, RJ12 port (active or passive), M-Bus (wired or wireless), PLC (PLC G2/G3), Point-to-point (2G/3G/4G)			
Input – output options		Output 5 A/230 V relay, Output SSD - Solid State Relay 0.1 A / 230 V, Input (universal S0 input)			
		Technical s	pecifications		
Nominal voltage Un		110 V - 230 V		3 x 230/400 V, 3 x 110/190 V	
Voltage range		0.8 – 1.15 Un			
Reference frequency		50 Hz		z or 60 Hz	
Current	Nominal current In	-		10 A	1 A
	Base current lb	5 A or 1	0 A	-	-
	Maximal current Imax	DIN 1 Ph = 60 A and 85 A	BS 1 Ph = 100 A	Direct connected = 60 A , 85 A ,100 A and 120 A	CT = 6 A
Accuracy class	Active energy	Class 2 or Class 1 A or B (EN 50470 - 3, EN 50470 - 1)			
	Reactive energy	Class 3 or Class 2			
	Apparent energy	Calibrated up to 3%			
Real-time clock	Accuracy	< 5ppm or <±3 min/year			
	Back-up power supply	Super-Cap: $<$ 7 days; life time 15 years, Exchangeable battery lithium - thionyl chloride : life time 10 years			
Switching device		Integrated			
Temperature ranges (IEC 62052 - 11)	Operation	-25 °C +55 °C; extended -40 °C +70 °C			
	Storage	-40 °C +80 °C			
Ingress protection IEC 60529		IP 54			
Liquid Crystal Display		L1			
		Basic fur	nctionality		
Measurement		Active energy and power, 4Q Reactive energy and power, Apparent energy and power, instantaneous value of voltage, current, power factor, frequency and power, Absolute measurement of active energy and power, Vector and Arithmetic measurement			
Tarif functions		Time-of-use (TOU) measurement of active energy and maximum demand (up to 8 tariffs, 12 season, 12 weekly programs, 16 switches, 105 special days)			
Load profiles		Two load profiles with different daily and hourly registration period with up to 32 different object, Four separate profiles for sub-metering (M-bus), Seven separate Event logs for different objects, Two billing profiles			
Power quality		Voltage sag, swell and cut, daily peak and minimum, voltage and current asymmetry, power failure, Power quality Load Profile			

Backlit LCD display, Detection of opening meter, terminal and communication module cover, External magnetic field detector and magnetic immunity (sustainable up to 380 mT), Detection of meter wiring, In-house display support, Power quality supervision, Integrated switching device up to 3 x 100A (UC3), RTC (Super-Cap), Remote FW upgrade, Secured communication channels and authenticated and encrypted data exchange, DLMS Suite 0 and Suite 1 supported

Optional

Field exchangeable battery, M-Bus (integrated wireless or wired), Flexible I/O options, RS485, With/without breaker, Long/transparent terminal cover



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