

# AM550

## MODULAR ELECTRICITY METER.



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

## FEATURES

- Universal standardized transparent pass-through communication interface.
- Optimized new metrology base with a powerful "Measure Everything" measuring concept.
- Modular communication on WAN (P3) and HAN (P1) levels.
- Firmware 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.

## KEY BENEFITS

- Future proof platform.
- Optimized new metrology base with a powerful "Measure Everything" measuring concept
- FW upgradeability of meter communication modules.
- Sub-metering support and data forwarding over various HAN and WAN communication paths.
- Fair meter approach (high level of recyclability)
- Modular communication on WAN interface.
- Universal standardized transparent pass-through communication interface.
- Modular communication on the customer interface.
- Extended set of embedded Smart Grid functions.
- Integrated high-level security mechanisms.
- Modular set of input/output options.

			AM550-E		AM550-T	
			Direct connected		Current transformer connected	
TYPE OVERVIEW						
<b>Network</b>	Low voltage		•		•	
<b>Connection type</b>	1P2W		•			
	3P4W				Can be connected as 1Ph or 2Ph meter	•
<b>Communication</b>	WAN		PLC (G3PLC), Point-to-point (2G/4G, 2G/3G/4G, 2G/LTE-M/NB-IoT), Ethernet, RS485			
	Customer port		DSMR5 compliant; active or passive with RJ12 connector type			
	Multiutility		M-Bus; wired and wireless			
	Local communication		Optical port			
TECHNICAL SPECIFICATIONS						
<b>Nominal voltage</b>			230 V		3 x 230/400 V	
<b>Voltage range</b>			0.8 – 1.15 Un			
<b>Current range</b>	Base current	lb	5 A or 10 A		5 A, 10 A or 20 A	
	Maximal current	Imax	60 A, 85 A and 100 A		60 A, 85 A, 100 A or 120 A	
<b>Accuracy class</b>	Active energy		Class 1 (IEC 62053-21) or B (EN 50470 - 3, EN 50470 - 1)			Class 0.5 (IEC 62053-21) or C (EN 50470 - 3, EN 50470 - 1)
	Reactive energy		Class 2 (IEC 62053-23)			Class 1 (IEC 62053-23)
	Apparent energy		Calibrated up to 3%			Calibrated up to 2%
<b>Temperature ranges (IEC 62052 - 11)</b>	Operation		-40 °C ... +70 °C			
	Storage		-40 °C ... +80 °C			
<b>Ingress protection IEC 60529</b>			IP 54			

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