



**iskraemeco**  
BY ELSEWEDY ELECTRIC

SMART



# AM550

## Modular Electricity meter

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 pass-through 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

# AM550

Future proof platform

Modular set of input/output options

Fair meter approach (high level of recyclability)

Integrated high level security mechanisms

Modular communication on WAN interface

Optimized new metrology base with a powerful "Measure Everything" measuring concept

Extended set of embedded Smart Grid functions

Sub-metering support and data forwarding over various HAN and WAN communication paths

Universal standardized transparent pass through communication interface

Modular communication on customer interface

FW upgradeability of meter communication modules

	AM550-E	AM550-T	
	Direct connected	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 (PLC G2/G3), Point-to-point (2G/3G/4G, NB-IoT), Ethernet(3ph only), RS485	
	Customer port	DMSR5 compliant; active or passive with RJ12 connector type Multiutility	
	M-Bus; wired		
	Local communication	Optical port (supports both protocols IEC62056-21(old 1107), and DLMS )	

## TECHNICAL SPECIFICATIONS

<b>Nominal voltage</b>		240 V	3 x 240/415 V	
<b>Voltage range</b>		0.8 – 1.15 Un		
<b>Current range</b>	Base current	5 A or 10 A	5 A, 10 A or 20 A	1 A
	Maximal current	100 A	100 A or 120 (without Breaker) A	10A
<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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