

# IE.X

## SINGLE AND THREE PHASE ENERGY METERS.



### FUNCTIONALITIES

- Modular hardware design (field exchangeable communication device).
- Modular firmware design.
- High integration: Multi-utility, HAN, LAN, IO's.
- Support for latest communication technology: NBloT/LTE-M/2G. ESIM, Antenna couplers.
- Integrated breaker up to 100A.
- Exchangeable battery improved customer GUI interface.
- Integrated generic IO sets.
- Customer Access to IO's (2x Relay, P1 port).

## BENEFITS

- **Flexibility** in our product portfolio also caters to requirements at every possible scale, from simple residential meters all the way up to advanced measurement systems for industry and everything in between.
- **Scalability** is achieved through the platform's architecture, which allows products to be scaled with specific features for different applications. This serves the RSA, RSM and ICG segments with scalable hardware and embedded software architecture (eMOS).
- **Sustainability** is integrated in Iskraemeco's DNA and our portfolio, IE.X, has low power consumption and a design that together with optimized logistics services impacting the total cost of ownership of the meter. The meter is made of recyclable material making it easy to dismantle at the end of its life cycle.
- **Connectivity** is guaranteed in huge time savings by supporting M2M connectivity - such as NB -IoT, CAT -M and LTE-M - and offering full backward compatibility with 2G, 3G and 4G ensures major time savings. A capability of a sub-metering water, heat and gas meters and with an expansion of inputs and outputs accommodating their increasing importance in load management.
- **Security** is ensured through fully complying with the safety requirements of European and national legislation. There are two levels at which security is ensured: Physical and Logical.

		IE.5-E Direct connected	IE.5-T Direct connected	IE.7-T Current transformer connected	
TYPE OVERVIEW					
	Low voltage	•	•	•	
Connection type	1P4W	•			
	3P4W		•	•	
	3P3w		•	•	
Communication	WAN	Point-to-point (2G/3G/4G, NB-IoT/LTE-M), RS485			
	Customer port	DMSR5 compliant; active or passive with RJ12 connector type			
	Multiutility	wM-Bus			
	Local communication	Optical port			
TECHNICAL SPECIFICATIONS					
Nominal voltage $U_n$		230 V	3 x 230/400 V; 3 x 230 V		
Voltage range		0.8 – 1.15 $U_n$			
	Base current	$I_b$	5 A	5 A	1 A
	Maximal current	$I_{max}$	85 A	85 A, 100 A	10 A
Accuracy class	Active energy	Class 1 (IEC 62053 - 21) or B (EN 50470 - 3, EN 50470 - 1)		Class 0.5 (IEC 62953 - 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 %	
Temperature ranges (IEC 62052 - 11)	Operation	-40 °C ... +70 °C			
	Storage	-40 °C ... +80 °C			
Ingress protection IEC 60529		IP 54			

## ISKRAEMECO GROUP

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