AC750

A SECURE, MODULAR IoT CONNECTIVITY SOLUTION.

AC750 gateway/data concentrator is a future-proof investment for the smart grid. It manages seamlessly the connectivity on the network and enables monitoring the connected devices.

FEATURES

- Notification manager.
- Multi-interface solution.
- Web user interface.
- OTA firmware upgrades.
- Interoperable communication protocols.
- Exchangeable plug-and-play communication modules.
- Secure and scalable, multinetwork solution.
- Auto-commissioning function.
- Monitoring and diagnostics.
- Network management.
- IoT ready.

iskraemeco
BY ELSEWEDY ELECTRIC

KEY BENEFITS

- **Future proof** - designed with two field-exchangeable communication modules to cope with new communication technologies and have a customized solution for individual requirements.

- **Interoperability** – uses open interoperable standards at multiple levels such as DLMS/COSEM, IDIS, G3-PLC, etc., ensuring seamless data flow and smooth upgrades.

- **Managed connectivity** - enables to successfully launch, manage, and monitor the connected devices.

- **Security** - utilizes a Hardware Security Module to protect cryptographic material against compromise and supports secured protocols that guarantee confidentiality, integrity, authenticity and availability of metering data

- **Cost effective** – multi-interface solution which can be tailored to the customer's business needs.

- **High reliability and long lifetime** - designed with industrial-grade specifications to withstand extreme environmental conditions such as shock, corrosion, temperature, vibration and humidity.

AC750		
TECHNICAL SPECIFICATIONS		
Nominal voltage		1x230 V or 3x230/400 V
		1x120 V or 3x120/208 V
Voltage range		0.8 – 1.15 Un
Type of system earthing (IEC 60364)		TN and TT
Reference frequency		50/60 Hz
Frequency range		-/+10%
Power consumption	Standard	6.5W/20VA
	Maximum	10 W/30VA
Real time clock	Accuracy	<5 ppm (at 23 °C))
	Back-up power supply	With Super-Cap: < 7 days
		With exchangeable battery: < 10 years
Temperature ranges	Operation	-25 °C ... +70 °C
	Storage	-40 °C ... +80 °C
Humidity		Relative humidity up to 98% non-condensing
Pollution degree rating		II
Operation altitude		<2000 m
Overvoltage category (IEC 60664-1)		OVC IV
Protection against electric shock (IEC 61140)		Class II
Ingress protection IEC 60529		IP 54
Safety		According to IEC 62368-1
Certifications		G3-PLC alliance certificate, Declaration of Conformity (CE)
Installation		DIN rail or 3 fixing points
COMMUNICATION INTERFACES		
To Head End-System		10/100 BASE-T, Ethernet (RJ45) interface, AC150 cellular communication module
To connected devices		G3-PLC modem based on ITU-T G.9903 (OFDM Modulation) with three phase coupling, RS485 interface
Local access		10/100 BASE-T Ethernet (RJ45) interface

ISKRAEMECO GROUP