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CLUEY GRIDSPOTTER

The complete solution for load flow measurement in low-voltage networks



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- **Compact housing**
- **Up to 20 outputs**
- **Integrated voltage measurement**
- **Integrated industrial router**
- **IP65 housing**
- **15 years of availability**
- **LTE & 450 MHz**
- **CAT IV**
- **Zero-touch provisioning**
- **Fleet management**
- **IEC 60870-5-104**
- **MQTT Sparkplug B**

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The **CLUEY GRIDSPOTTER**, together with the **GRIDALYZER** current sensors, provides a complete solution for load flow measurement in low-voltage networks. It combines a **power supply unit**, a **GRIDALYZER** voltage measurement module and an **industrial mobile communications router** in a compact design. Up to 20 outputs can be measured with phase- and output-specific resolution.

Thanks to its robust **IP65 housing** and particularly **low profile**, the CLUEY GRIDSPOTTER is ideally suited to confined installation spaces in cable distribution boards and local network substations. Daisy-chained current sensor modules enable quick and **easy installation**, particularly when retrofitting.

Thanks to its CAT IV measurement and surge protection category, the CLUEY GRIDSPOTTER can be connected directly to the low-voltage network. The IP65 rating ensures reliable and long-lasting operation even under adverse conditions. Open interfaces allow for easy integration into existing network control systems and data platforms

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Secure communication for critical infrastructure

The integrated industrial mobile communications router is specifically designed to meet the requirements of critical infrastructure and communicates either via **public mobile networks** or the **450 MHz KRITIS network**.

Support for the standard protocols IEC 60870-5-104 and Sparkplug B enables easy connection to front-end computers, control systems and data platforms via secure connections.

Zero-touch provisioning, along with **centralised configuration**, **update and fleet management**, reduce operational overheads throughout the entire lifecycle. Proven industrial technology and a **product availability of over 15 years** ensure long-term investment security.

Added value: The CLUEY GRIDSPOTTER is the compact, all-in-one solution for monitoring tasks in the low-voltage grid. It enables rapid installation and easy integration, and serves as a reliable data source for grid transparency, Section 14a control and digital twins.

Technical Data:

CLUEY GRIDSPOTTER system				
Integrated components				
GRIDALYZER measurement system	3 phases + N, 1 kV measuring range		Router	Garderos R-7928 with 2x SIM card slots, configuration, update and fleet management, and Zero-Touch Provisioning via platform
Power supply	Supplies internal components and external current sensors			
External components				
GRIDALYZER current sensors	Max. 20 Rogowski current sensors, 3- or 4-phase, 50 or 140 mm usable coil diameter, 1 kA or 2 kA measuring range			
Communication				
LTE	Public mobile network, 450 MHz critical infrastructure (KRITIS) network		Protocols	IEC 60870-5-104, Sparkplug B
Environmental conditions				
Relative humidity	0 … 95 % (non-condensing)		Operating temperature range	-20 °C … +60 °C
Insulation				
Measurement category	CAT IV 300V		Overvoltage category	CAT IV 300V
Connections				
Low voltage	4-pin flange connector, L1, L2, L3, N + PE earthing stud		PowerMeterBus	6-pin, for up to 20 GRIDALYZER current sensors, daisy chain
Antennas	2x SMA, 50 Ohm		Diagnostic interface	USB-C (virtual COM port)
Enclosure				
Material	Aluminium/ABS		Protection rating	IP65
Flammability rating	UL94V-0		Mounting	Wall mounting with screws or magnets
Dimensions	32.2 x 18.7 x 87.0/70 mm		Weight	≤ 3.5 kg

Last updated: September 2026 – subject to technical changes.

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