

## GRIDALYZER

### Modular power meter for low-voltage networks



C-FS-GRIDALYZER\_260318\_EN.docx

- Compact modular design
- Up to 20 current sensors
- Interchangeable daisy chain cabling
- AI power quality indicators
- Modbus RTU interface
- Status and diagnostic LEDs
- USB monitoring and diagnostic interface
- Unique module ID
- Updateable
- Corrosion-protected
- IP67

[www.comtac.ch](http://www.comtac.ch)

The modular **GRIDALYZER** power meter consists of a **voltage sensor** and up to **20 current sensors**. It provides phase- and output-resolved measurements for voltages, currents, power, phase angles and harmonics. Integrated **artificial intelligence** generates **quality indicators** that show the power quality at a glance.

The voltage and Rogowski current measurement modules are easy to connect to each other thanks to **swap-proof daisy chain cabling**. A wide range of mounting options, bayonet locks on the Rogowski coils, easy-to-read markings and **status LEDs** enable quick, error-free and clean installation.

With **IP67** protection for the housing and connectors, **GRIDALYZER** is reliably protected against corrosion – even in the event of temporary flooding. The devices comply with the **CAT IV @ 600 V** insulation category and are therefore ideal for safe use in transformer stations and cable distributors – even in confined or adverse conditions.

Let  
things  
talk.



## GRIDALYZER – the «better meter» with AI-supported voltage quality analysis

### Easy installation – reliable performance

All measured values can be easily read out via the **Modbus RTU** interface. Communication and power supply are provided via bus cable.

The **USB interface** allows the current measured values and operating status to be displayed for diagnostic purposes using freely available terminal programmes.

The firmware and AI models of the power meter can be **updated** via both the USB interface and the Modbus RTU interface.

**Added value:** The **GRIDALYZER** is optimally designed for monitoring tasks in low-voltage networks, for quick installation and easy integration – as a reliable intelligent data source for network transparency, control and digital twins.

#### GRIDALYZER modules:

<b>voltage sensor</b>	VS1000-4	3-phase +N voltage measurement, measuring range 1000V
<b>Rogowski current sensors</b>	RS1050-3	Coil diameter 50 mm, 1 kA measuring range, 3 coils
	RS1050-4	Coil diameter 50 mm, 1 kA measuring range, 4 coils
	RS2140-3	Coil diameter 140 mm, 2 kA measuring range, 3 coils
	RS2140-4	Coil diameter 140 mm, 2 kA measuring range, 4 coils

#### Technical data:

GRIDALYZER System / Modules			
Power supply	24 VDC via power meter bus	Operating temperature range	-20°C...+ 60°C
Structure	1 voltage + up to 20 current measurement modules	Relative humidity	0...95%
Module cabling	Daisy chain with bus cables	Protection class	IP67 Housing & connectors
Connection for Modbus and power supply	via bus cables with open ends or RJ45 plug	Dimensions	83mm*47mm*34mm
		Dimensions incl. cabling	120mm*47mm*34mm
Interface	Modbus-RTU		
Measured values	Voltages UL-N, UL-L, Frequency F Currents I Power: P, Q, S Phase angles: cosPhi, PF Harmonics U/I (up to 50th harmonic) Current, average, min. and max. values	AI quality indicators	7 voltage curve criteria with 0...100% rating: <ul style="list-style-type: none"> <li>• Sinusoid</li> <li>• Sag/swell</li> <li>• Short interrupt</li> <li>• Transient/pulse/spike</li> <li>• Oscillation</li> <li>• Flicker</li> <li>• Notch</li> </ul>

As of March 2026 – subject to technical changes.

**www.comtac.ch**

Let things talk.