Smart Energy & Power Quality Solutions

Portable power analyzer & portable power quality analyzer with RCM





FLEXIBILITY MEETS PRECISION

Mobile power quality recording

Janitza®

MOBILITY WITH PRECISION

MEASURE FLEXIBLY ANYTIME AND ANYWHERE

Precise measurement technology is the key, be it for trouble-shooting, optimizing energy flows or complying with standards. However, fixed measurement devices are not always the best solution. This is where mobile measuring cases come into play.

MRG Flex measuring cases combine powerful measurement technology with maximum flexibility. They record and analyze network parameters directly on site – without a fixed installation. This enables not only short-term measurements but also long-term monitoring at different locations.

In complex systems or when unclear incidents occur, it is crucial to carry out measurements exactly where they are needed.

Flexible energy measurement in a practical case
MRG Flex measuring cases offer a powerful solution for mobile measuring tasks. Their compact design and easy handling make them ideal for a variety of applications. They provide detailed insights into electrical networks and targeted help to identify faults.

MRG Flex measuring cases combine precise measurement technology and a robust design, and can also be easily retrofitted in existing systems. They are therefore ideal for both short-term use and long-term analysis.



MRG 96-PQ-L-LP Flex
Part no. 5216907





FLEXIBLE POWER QUALITY

AN EFFICIENT MONITORING SOLUTION FOR MOBILE APPLICATIONS

NETWORK ANALYSIS
- Ideal for analyzing electrical disturbance variables for network problems
- Harmonics current up to the 65th harmonic and short-term interruptions
- High sampling rate with 280 sampling points per full wave

COMPACT FLEXIBILITY
- Comfortable backpack for easy transportation
- Case, backpack, and accessories weighing only 3 kg in total
- Suitable for mobile use – set up exactly where the measurement is needed

RESIDUAL CURRENT
- Integrated residual current monitoring
- Precise identification of residual currents for early detection of insulation faults and other electrical safety risks

SIMPLE INTEGRATION
- Ethernet port for simple system integration
- Rogowski coils enable simple retro-fitting without system interruption

USER-FRIENDLY
- Easy to access, intuitive operation
- Quick and easy to transport

ROGOWSKI CURRENT TRANSFORMERS
- High measuring range of 10–8000 A
- Ideal for large cable cross sections and high frequencies (harmonics current)



Lightweight and compact – weighing in at just 3 kg so easy to transport in a backpack

CERTIFIED CLASS A MEASUREMENT

POWER QUALITY ANALYSIS FOR DEMANDING APPLICATIONS

POWER QUALITY
- Power quality measurement in accordance with class A IEC 61000-4-30
- Detection of harmonics, interharmonics & distortion factors THD-U / THD-I / TDD
- Recording and analysis of transients (> 39 µs)

DATA SECURITY
- Continuous and reliable data acquisition
- Large internal memory (256 MB) for recording
- Uninterrupted measurement data acquisition thanks to three-hour UPS buffering in the event of a power failure

ROGOWSKI CURRENT TRANSFORMERS
- High measuring range of 100–4000 A due to Rogowski current transformer
- Ideal for large cable cross sections and analyzing high frequencies (harmonics current)

SIMPLE INTEGRATION
- Ethernet port for simple system integration
- Device access and configuration via a dedicated device homepage
- Easy access to the homepage via the browser over IP

FLEXIBILITY
- Flexible measurement of power quality and residual current
- Mobile use, exactly where the measurement is needed

RESIDUAL CURRENT
- Integrated residual current monitoring
- Precise identification of residual currents for early detection of insulation faults and other electrical safety risks



MRG 512-PRO PQ Flex
Part no. 5216905

THE PERFECT ADDITION

ACCESSORIES FOR MAXIMUM MEASURING ACCURACY

The MRG 512-PRO PQ Flex and MRG 96-PQ-L-LP Flex measuring cases from Janitza are supplied with matching accessories that are optimally matched to each model to enable precise, reliable, and flexible use of the measuring cases.

MRG 512-PRO PQ FLEX ACCESSORIES

- 4 voltage measuring taps with fuses, black (claw gripper)
- 1 voltage measuring tap with fuse, blue (claw gripper)
- 1 set of voltage test leads (brown, black, gray, red, blue)
- 4 Rogowski coils, Ø 175 mm, with connecting cables and plug
- 1 cross-patch cable, CAT 5e
- 2 connecting cables with plug for residual current detection, 3 m (residual current transformer not included in scope of delivery)

MRG 96-PQ-L-LP FLEX ACCESSORIES

- 1 laptop backpack
- 1 power cable
- 3 voltage measuring taps; black (claw gripper) with back-up fuse
- 1 voltage measuring tap; blue (claw gripper) with back-up fuse
- 1 set of voltage test leads (brown, black, gray, blue)
- 4 MFC 150 Rogowski coils with connecting cable and plug (Ø 175 mm, length 5 m)
- 1 set of connecting cables with plug for residual current detection, 3 m (residual current transformer not included in scope of delivery)



MRG measuring case accessories (example)

THE MOBILE SOLUTION IN USE

Cross-check of measurement devices
MRG Flex measuring cases allow you to verify measurement results from your measurement technology directly without any conversion or removal work. As a result, you can detect setting errors or faults on your measurement devices – or reliably confirm values that have already been recorded. This allows you to identify problems and irregularities in a targeted manner.

- Check measured values of existing measurement technology without system intervention
- Identify errors in the settings and faults at an early stage
- Verify unclear measurement results and pinpoint the causes

Short-term analysis of power quality
The MRG Flex measuring cases enable you to quickly analyze targeted power quality in your systems. By taking measurements at several points over a few days, faults and problems can be reliably identified.

This gives you a precise overview of the current system status and allows you to decide whether a permanent installation of network analyzers is necessary. At the same time, the data collected provides a sound basis for optimizing your system.

- Quick and targeted testing of systems and machines
- Pinpoint the causes of network faults with a high level of precision
- Cost-efficient alternative to permanently installed measuring systems





Troubleshooting at remote locations
The systems or grid stations to be measured are not always in the immediate vicinity. In remote areas or areas that are difficult to access, it is not always possible to consistently record energy data to the required level of detail.

MRG Flex measuring cases offer a flexible solution: They can be easily transported in the event of anomalies and enable a detailed analysis of the power quality and residual currents – without the need for costly retrofitting.

- Reliably check remote stations and systems
- Record power quality and residual currents in detail
- Determine faults reliably – without permanently installed measurement technology

Irregular energy consumption
Whether on construction sites, at company parties or major events – temporary energy consumption can cause unforeseen grid loads and have a significant impact on power quality.

MRG Flex measuring cases are ideal for those scenarios: They can be set up quickly and dismantled just as easily. This allows you to retain control of the power quality and residual currents even when short-term events occur.

- Network load recording due to temporary events
- Targeted monitoring of power quality and residual currents
- Quick and easy handling for maximum flexibility





ABOUT JANITZA

Janitza develops comprehensive energy measurement solutions that ensure transparent energy flows and monitor power quality. The global company, headquartered in Germany, provides individual solutions to meet specific customer requirements across a wide range of industries, including data centers, manufacturing, buildings & infrastructure, utilities, and renewable energy.

PRODUCT RANGE

Janitza's portfolio includes innovative measuring devices and the perfectly integrated Power Grid Monitoring Software GridVis®, complemented by high-quality components. Customers worldwide benefit from solutions in energy data management, power quality monitoring, and residual current monitoring, all within a unified system environment — Made in Germany.

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