

Project Brief



REFERENCE

Datcenter One GmbH, Hilden (Germany)

UPTIME IN THE DATA CENTER

TRANSPARENT ENERGY SUPPLY IN DATA CENTERS

Janitza®



Project manager Christian Werner from Datacenter One (left) and Gerald Fritzen from Janitza



The UMG 103-CBM universal measurement device on the top right enables precise determination of the PUE value

TRANSPARENT ENERGY SUPPLY IN DATA CENTERS

REQUIREMENT

Datacenter One GmbH operates data centers at various locations in Germany. These include colocation data centers, in which several customers can rent infrastructure such as the energy supply and also use their own rooms and equipment.

Uptime and transparent energy management are already high standards for data centers. If there are several customers in the data center, it must also be possible to measure the energy, its quality and its billing according to cost points in each area of the data center. Datacenter One guarantees all of this to its customers with defined tolerance limits - otherwise there is a risk of recourse claims.

SOLUTION

Colocation data centers need a comprehensive measurement concept that records the completely redundant energy supply. Datacenter One now relies on Janitza measurement devices as standard. The measurement concept for this project covers all granularity levels from I to III in the data center.

The Janitza solution includes class A-certified UMG 512-PRO power quality analyzers, which monitor the primary supply, the low voltage main distribution boards and the uninterruptible power supply (UPS) of the data center. Datacenter One uses the power grid monitoring software GridVis® for optimal monitoring and reporting, as well as evaluation and alarm management.

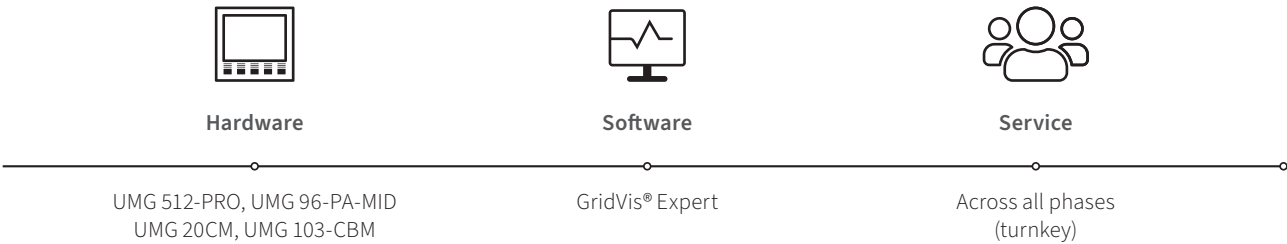
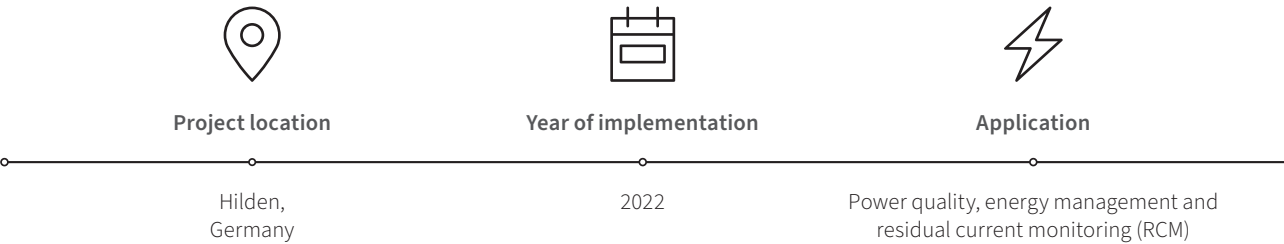
Datacenter One uses the space-saving UMG 20CM to monitor the energy supply in the less critical areas of the data center. The PUE value of the data center is determined by the compact UMG 103-CBM energy analyzers for DIN rail mounting. Even the possible energy feed-in of the diesel generators of the emergency power supply can be documented with UMG 96-PA-MID power analyzers in compliance with MID.

ADVANTAGES

Uptime, safety in operation, accurate billing: thanks to the Janitza measurement system, Datacenter One can maintain the high standards in its data center and provide its customers

with corresponding monthly reports. In addition, continuous monitoring of residual currents is guaranteed. This makes insulation measurement during the four-yearly DGUV inspection unnecessary. Janitza's comprehensive measurement solution in this data center is certified in accordance with DIN EN 50600 Level 3 by TÜViT (TÜV Informationstechnik GmbH).

Since 2021, Datacenter One has also been part of the Climate Neutral Data Center Pact to promote sustainable data center operations. Janitza's measuring system is a fundamental building block in these goals.



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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