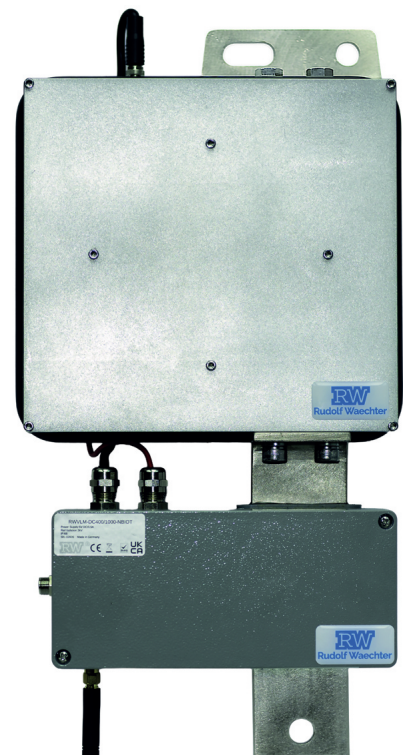
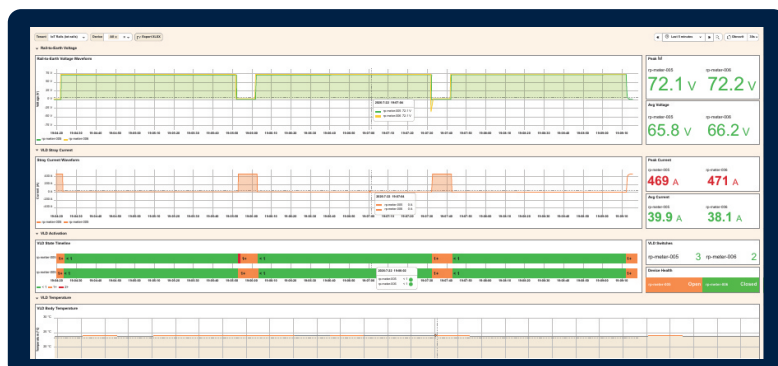




RWVLM-DC400/1000-NBIOT-(FT)

Smart monitor for stray currents, return-circuit voltage and VLD status

- » Continuous voltage and current measurement (1 s sampling with zoom) VLD status and failure detection
- » $\pm 400\text{ V}$ / $\pm 1000\text{ A}$ linear measurement range with 3 kV DC isolation
- » IoT data collection via NB-IoT or LTE-M networks with full coverage
- » Online view, analysis and long-term storage
Simultaneous view of multiple sites
- » Statistics and customer-defined alerts for predictive maintenance or immediate maintenance needs
- » Optional forced tripping of VLD class 2
- » Optional AC/DC or solar power supply



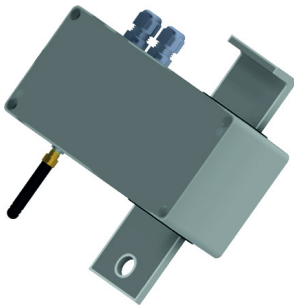
FT OPTION*

* Optional forced-tripping version

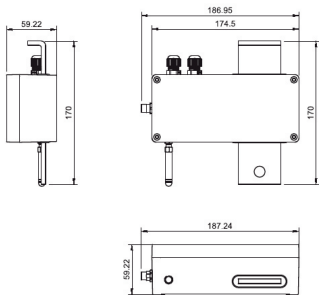
TECHNICAL DATA

RWVLM-DC400/1000-NBIOT / RWVLM-DC400/1000-NBIOT-FT

Device picture



Dimensions (mm)



Parameter	RWVLM-DC400/1000-NBIOT	RWVLM-DC400/1000-NBIOT-FT
Voltage measurement range	±400 V DC	±400 V DC
Current measurement range	±1000 A DC	±1000 A DC
Measurement inaccuracy	<2% with suppressed zero	<2% with suppressed zero
Sampling interval	1 s	1 s
Power supply	5 V DC	5 V DC
Power consumption (average / peak)	<2 W / 8 W	<2 W / 10 W
Data transmission network	LTE-M (NB-IoT)	LTE-M (NB-IoT)
Maximum ERP	20 dBm	20 dBm
Rail-to-measurement circuit isolation	3 kV	3 kV
Ingress protection	IP68	IP68
Dimensions	19 × 17 × 6 cm	19 × 17 × 8 cm
Weight	1 kg	1.2 kg
Server data storage	Up to 10 years	Up to 10 years
On-demand analyses	Customer-defined; automatic alert	Customer-defined; automatic alert
Operating temperature	-40 to +80 °C	-40 to +80 °C
Tripping current	N/A	20-80 A
Lifetime	N/A	>100,000 cycles
Ordering number	RWVLM_DC_400	RWVLM_DC_400_FT

Automatic analyses

Rail average and peak voltage
Rail voltage
Average and peak stray current
Stray current

Multi-node overlay
VLD temperature
VLD status: active / off / failure

Optional power supply

RWPS-5/2
Input: 85–305 V AC (47–440 Hz)
or 120–430 V DC
Output: 5 V DC / 10 W
Dimensions: 8 × 8 × 5 cm · IP68
Input fuse: 0.5 A
Order: RWPS_5_2

