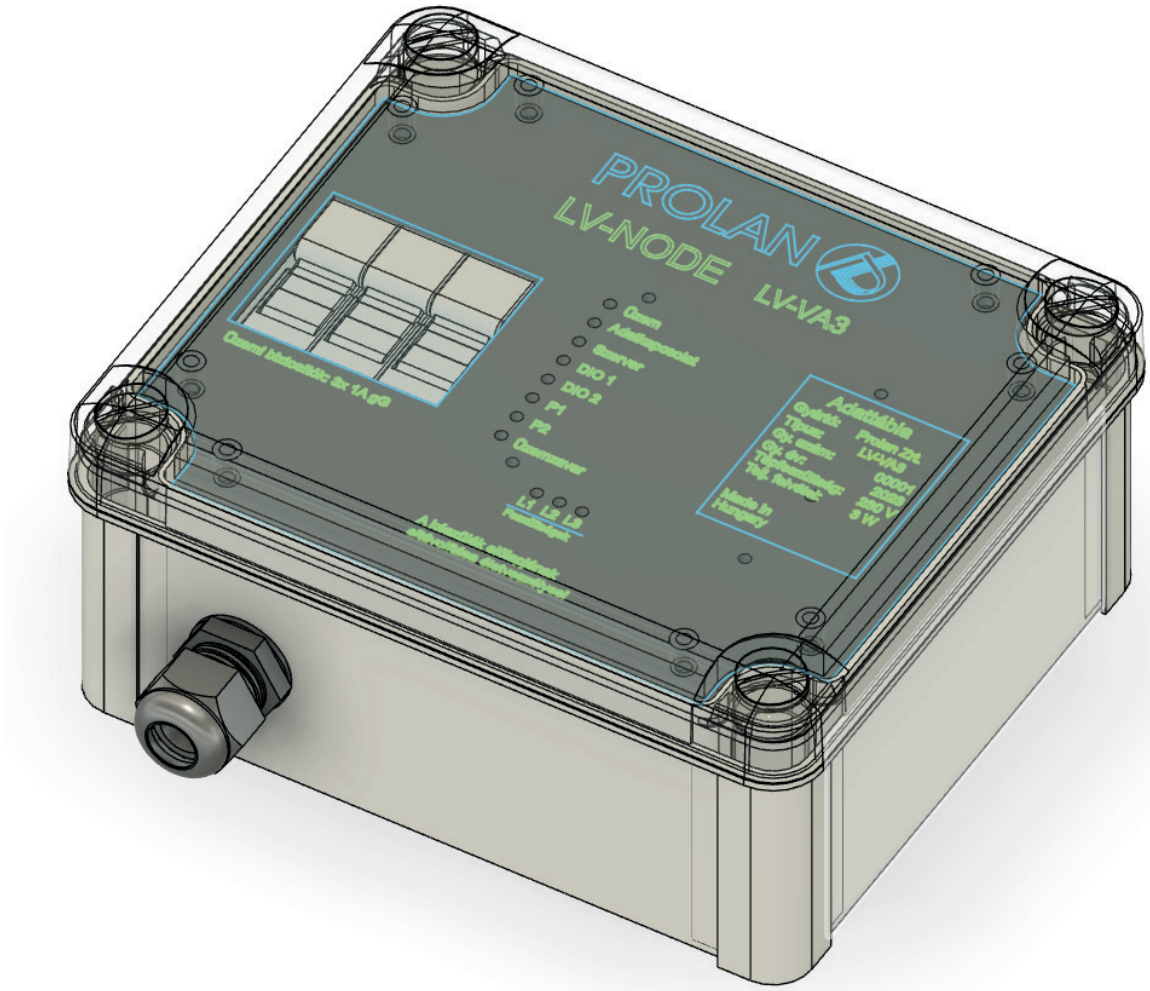
LV-NODE

PROLAN

LV-VA3

LV end point unit

Voltage quality monitoring



MEASUREMENTS

One minute averages

- Voltage RMS
- Voltage increase/decrease RMS
- Total harmonic distortion in voltage
- Individual number of harmonics measurement in voltage and current
- Voltage asymmetry
- Voltage min/max RMS
- Total harmonic distortion in voltage min/max

Events

- Voltage dip/swell
- Voltage interruption
- Fast voltage changes
- Flickers

KEY FEATURES

- Measuring the voltage quality characteristics according to IEC 61000-4-3 standard
- Accuracy of voltage and current measurement ≤1%
- Measurement of 3 phase voltage protected with internal fuse

- LTE 4G communication, with internal antenna
- MQTT data forwarding
- Remote parameterization and firmware update
- 3,5 minute power supply backup for LTE communication
- Power supply from at least 1 existing phase
- LED status indications on the front panel

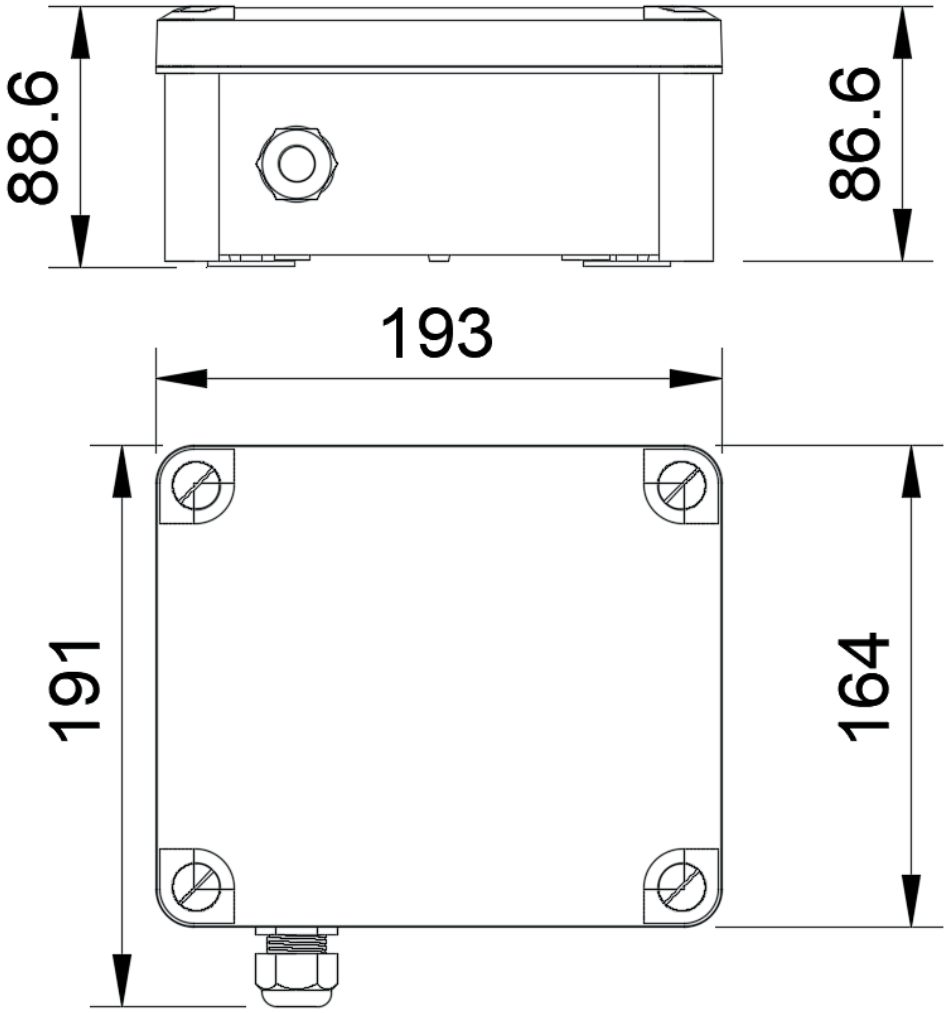
- UV resistant, IP65 construction
- Installation without disassembling the device
- Installation under voltage GPS location identification (optional)

TECHNICAL DATA

Parameter	Values
Input voltage	100…280 VAC
Power consumption	3 W average, max. 5 W
Frequency	48…52 Hz
Operation temperature	-25…75 °C
Voltage measurement	3 phase
Accuracy of voltage measurement	≤1 %
Voltage measurement range	0…280VAC
Overloading possibility of voltage measurement	400 VAC
Internal fuse	10x38 mm, 1A, 500V, I1>100kA
Surge	6 kV
Insulation strength	2.5 kVeff

Parameter	Values
Power backup time	3.5 minute
Sampling frequency	32 kHz
Power supply source	From measured network
Restarting time after the returning of the supply voltage	<20 s
Internal clock accuracy	<1 s/day
Communication	LTE 4G, GPRS
IP protection	IP65
Dimensions	193 x 164 x 88.6 mm
Mounting	2 x 6-15 mm strapping
(optionally: with screw)	6 kV
Weight (together with the cables)	2 Kg

DIMENSIONS



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