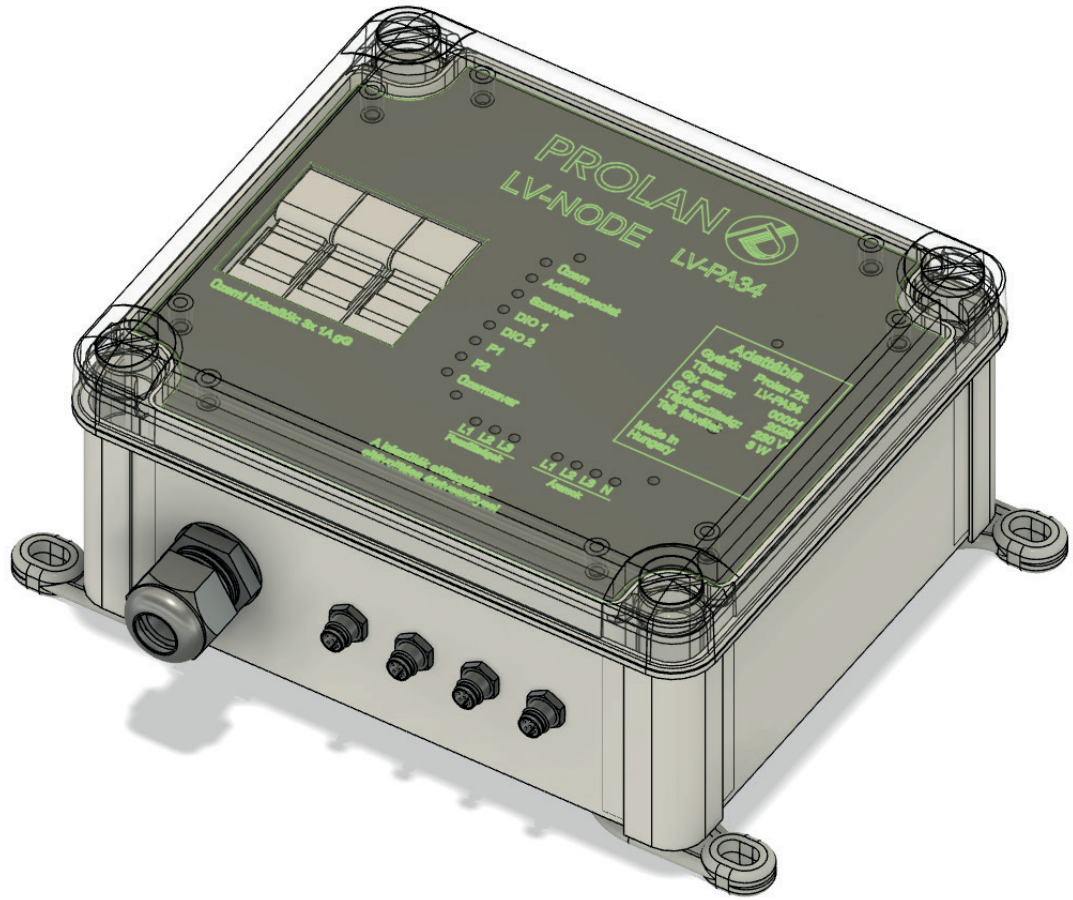


Voltage quality monitoring



**MEASUREMENTS**

**One minute averages**

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

**Events**

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

**KEY FEATURES**

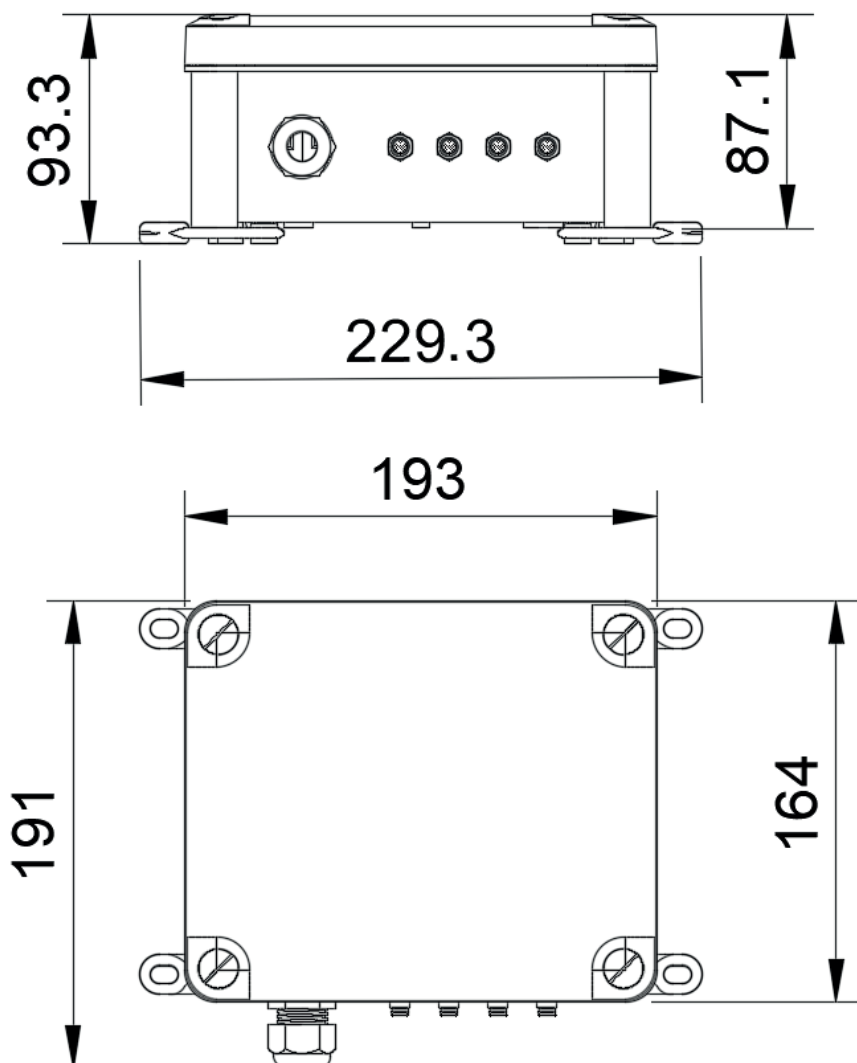
- Measuring the voltage quality characteristics according to IEC 61000-4-3 standard
- Accuracy of voltage and current measurement:  $\leq 1\%$
- Measurement of 3 phase voltage protected with internal fuse
- 4 current measurements with Rogowski coil
- Replaceable current measuring sensors equipped with IP65 connectors
- 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...280 VAC
Overloading possibility of voltage measurement	400 VAC
Internal fuse	10x38 mm, 1A, 500V, I <sub>t</sub> >100kA
Current measurement	4 pcs Rogowski sensor
Accuracy of current measurement	≤1 %
Range of current measurement	10...6000 A
Overloading possibility of voltage measurement	20 kA
Surge	6 kV

Parameter	Values
Insulation strength	2.5 kVeff
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
Remote communication	LTE 4G, GPRS
Local communication	2 x RS485 (optional)
IP protection	IP65
Dimensions	193 x 164 x 93.3 mm
Mounting	With screw (optionally with straps)
Weight (together with the cables)	3 Kg

# DIMENSIONS



**PROLAN** 

**Prolan Process Control Co.**  
 H-2011 Budakalász,  
 Szentendrei út 1-3.  
 Hungary  
 T: +36-20/954-3100  
 info@prolan.hu  
 www.prolan.hu