

# Data sheet

# Labcom 221 GPS

## Labcom 221 GPS

### Remote monitoring device with GPS positioning



Labcom 221 GPS is a battery-powered remote monitoring device with GPS positioning. With the internal battery Labcom 221 GPS can operate up to two years without recharging. The Labcom 221 Solar version enables uninterrupted use for several years without changing the battery. The device uses a 4G-based LTE-M / NB-IoT networks to transmit measurement and positioning data to the LabkoNet remote monitoring system.

The device is designed for remote monitoring of industry, water utilities and environmental care. Wide range of measuring sensors can be used with it depending on the application. Typical applications are stormwater measurements, remote monitoring of mobile tanks, various property alarms and other non-electrical measurement locations.

#### Features

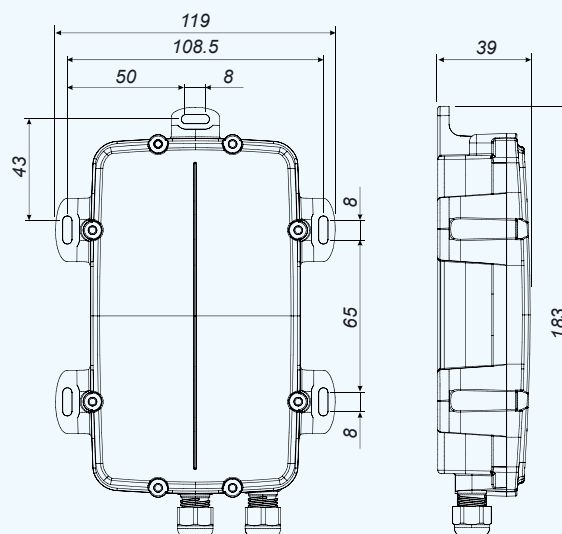
- Battery operated
- Support for various analog sensors and two digital inputs
- GPS positioning
- Internal temperature measurement
- Wide DC-supply range 6...28 V

#### Technical data

<b>Dimensions</b>	183 mm x 119 mm x 39 mm
<b>Enclosure</b>	IP68, IK 08 (Impact protection) (Solar IP65 / IP68)
<b>Operating temperature</b>	-30°C...+60°C
<b>Power supply</b>	Internal 3500 mAh LiPo battery or 6...28 VDC external power supply Operation time with battery up to 18...24 months. With solar version no need for recharge
<b>Antennas</b>	GSM and GPS, internal only
<b>Communication</b>	LTE-M, NB-IoT, Data encryption AES-256 and HTTPS
<b>Positioning</b>	GPS
<b>Analog inputs (*)</b>	1 pc 4...20 mA, resolution +/-10 µA
<b>Digital inputs (*)</b>	2 pcs 0...40 VDC input with alarm and counting features
<b>Digital output (*)</b>	1 pc digital output, max. 1 A, 40 VDC
<b>Other inputs (*)</b>	3.3/5/12 VDC power supply to external probes, SDI12, i2c, modbus, 1-wire, internal temperature measurement
<b>GORE® Vent</b>	Allows for pressure equalization while protecting against water and dust ingress
<b>Cable glands</b>	2 pcs. The diameter of the cable used should be between 2.5 mm - 6.5 mm
<b>Health and Safety</b>	IEC 62368-1, EN 62368-1, EN 62311
<b>EMC</b>	EN 301 489-1, EN 301 489-3, EN 301 489-19, EN 301 489-52
<b>Radio Spectrum</b>	EN 301 511, EN 301 908 -1,
<b>Efficiency</b>	EN 301 908-13, EN 303 413
<b>RoHS</b>	EN IEC 63000

(\*) depends on the device configuration

#### Dimensions (mm)



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