

Monitoring System for Overhead Transmission Lines



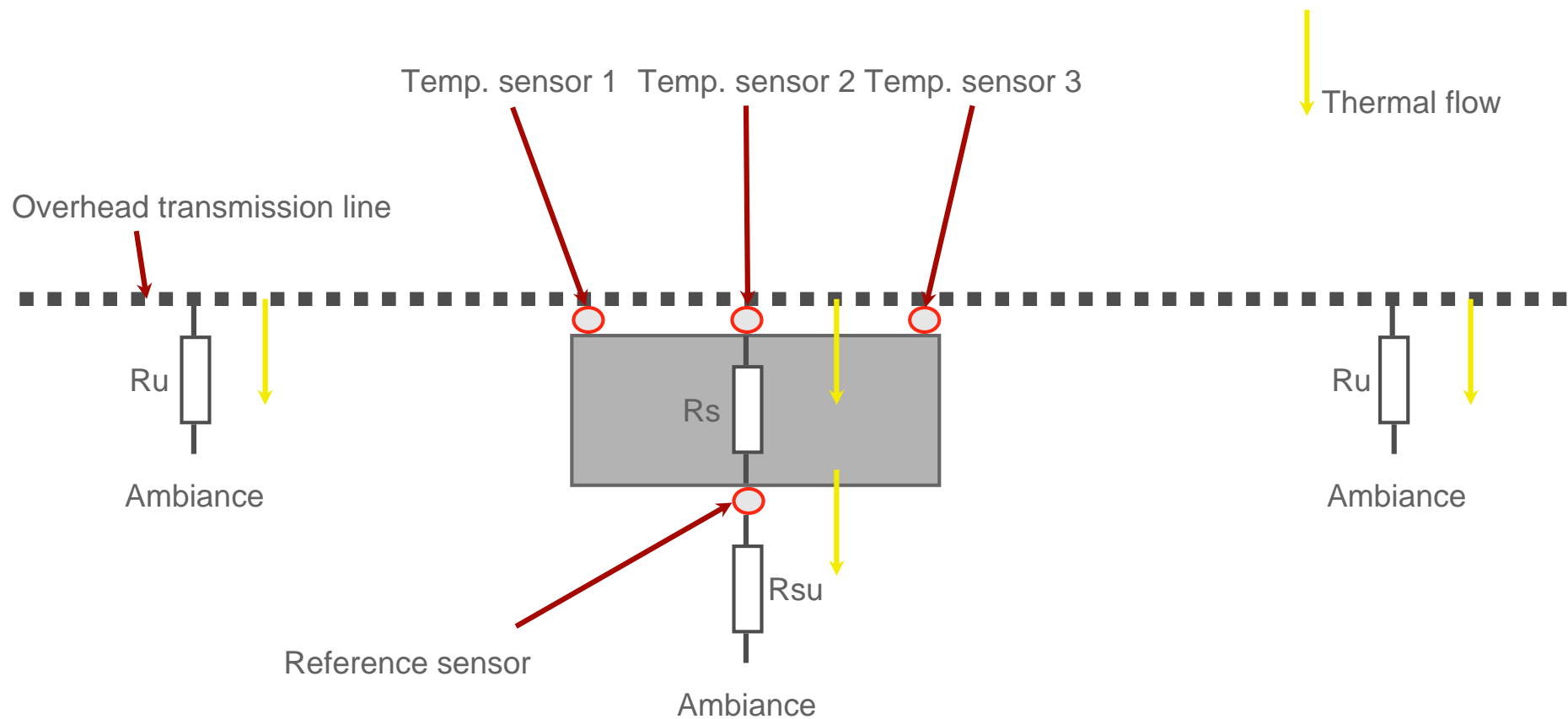
emo

*easy monitoring
overhead transmission*

Content

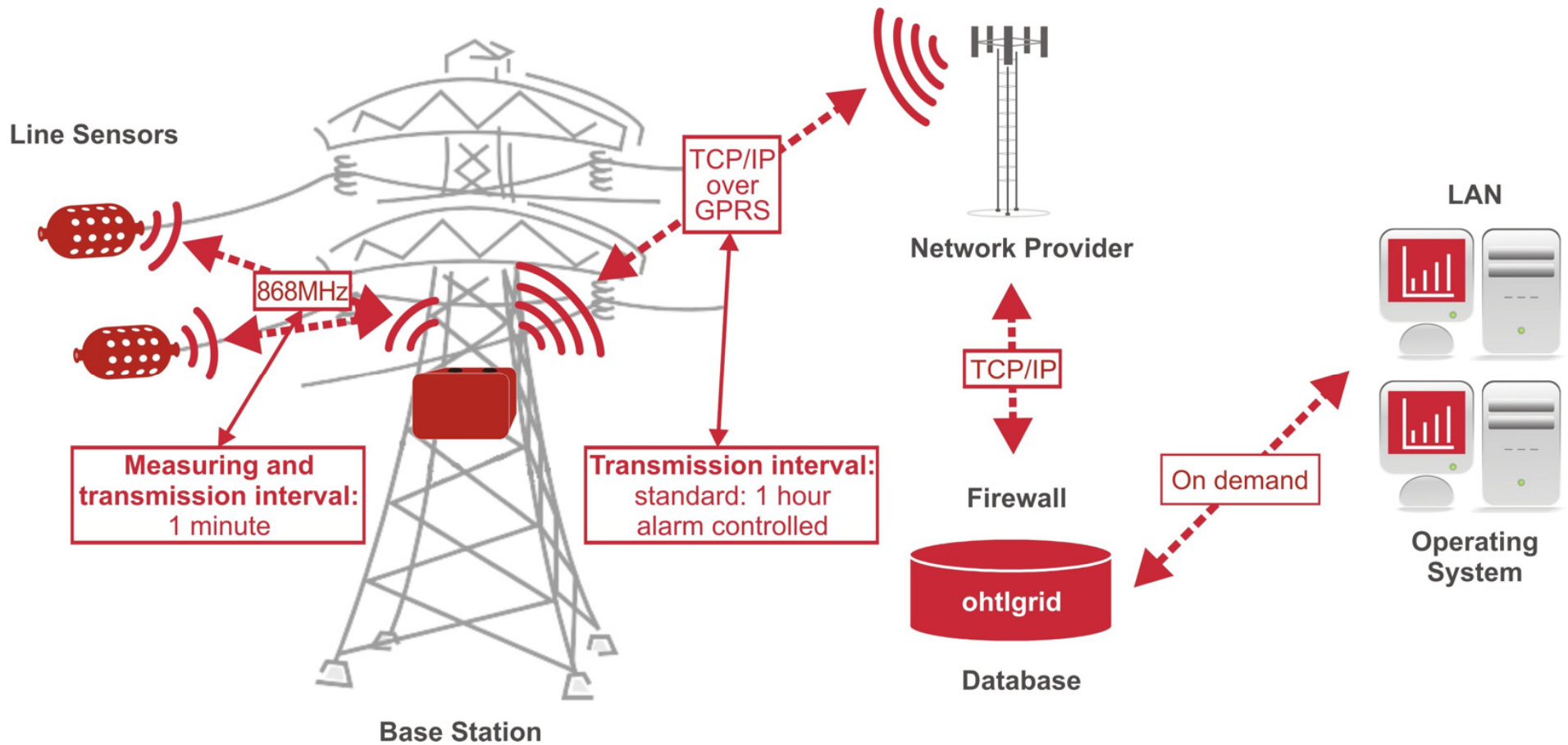
- Principle of measurement
- System layout
- Line Sensors
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- Options
- Installation and putting into operation

Principle of measurement

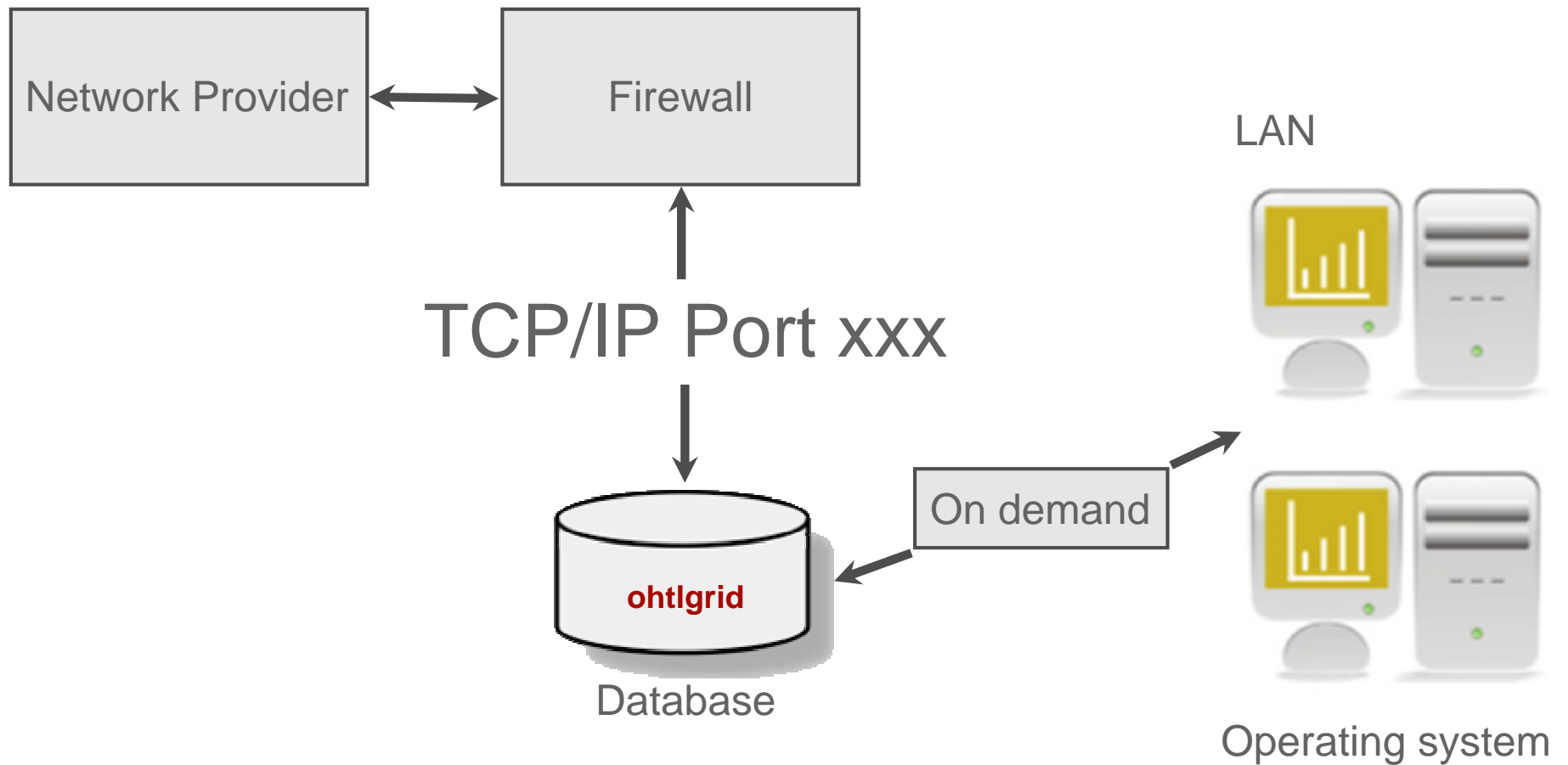


Compensation of all tempering environmental influences

System layout

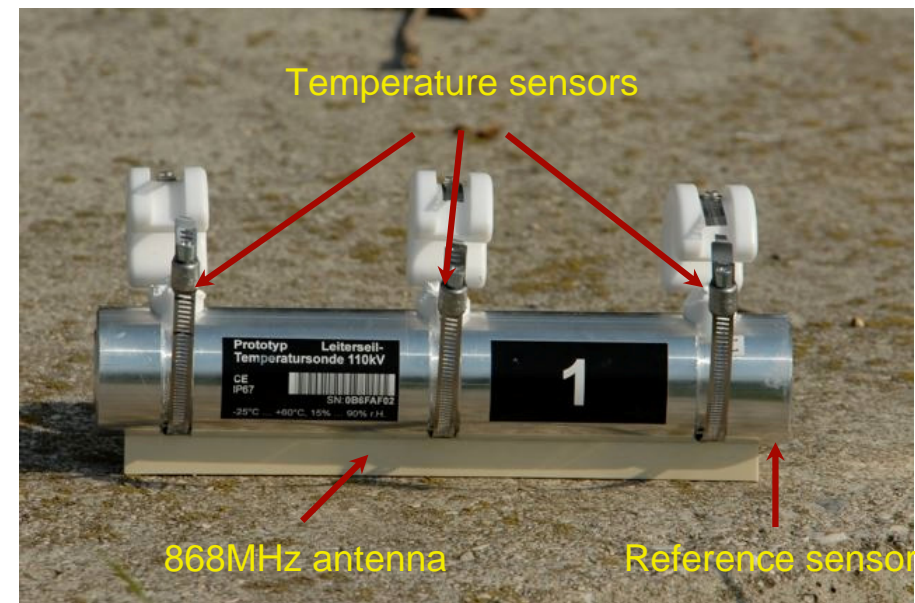


System layout



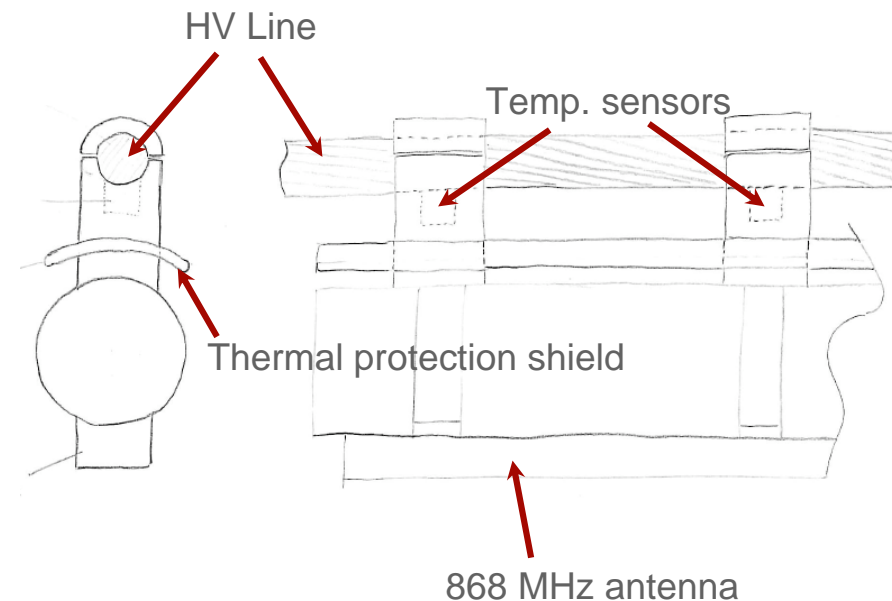
Standard Line sensor

- Line Sensor -25°C to +85°C
- Battery operated
- Life time 10 years
- Accuracy +/- 1,5°C
- 3 Sensors on the line
- 1 Reference sensor
- Standard voltage levels up to 400 kV
- Impressive scale of economy
- Easy and short term installation



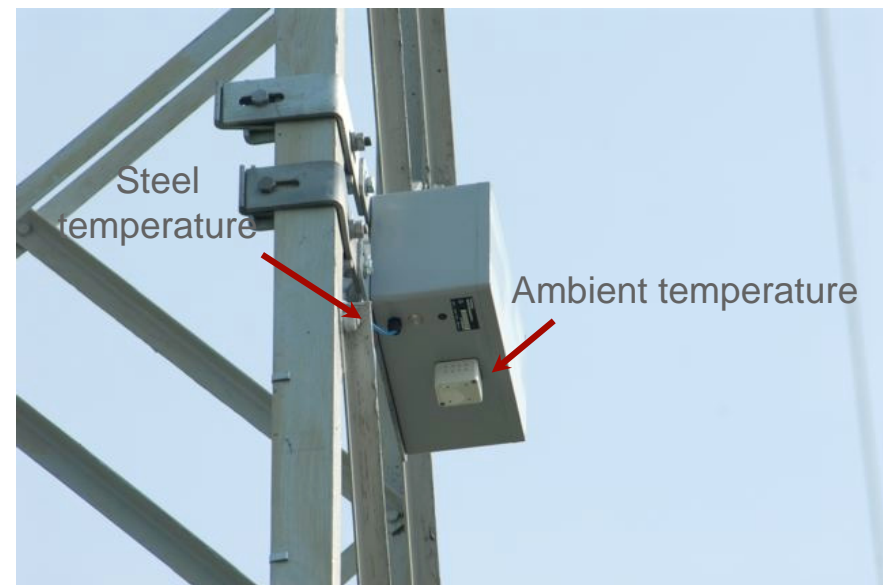
HighTemp Line sensor

- Line Sensor -25°C to +210°C
- Battery operated
- Life time 10 years
- Accuracy +/- 1,5°C
- 3 Sensors on the line
- 1 Reference sensor
- Standard voltage levels up to 400 kV
- Impressive scale of economy
- Easy and short term installation



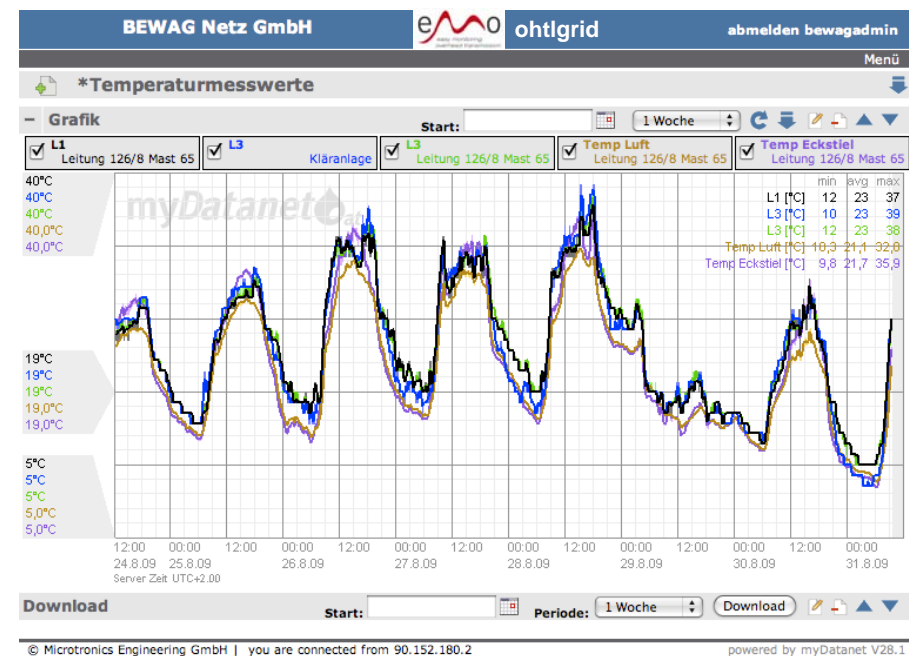
Base station

- 868 MHz radio link to line sensors
- GPRS link to database
- Battery operated
- Base station life time 3 years
- Base station can carry up to 12 sensors
- Solar panel option
- Add. sensors (Wind, Humidity, CO2 etc.)
- Weigth (9,5kg), no static recalculation!
- Total installation time (3 sensors, base station) less than 1 hour !



Software platform

- User programmable configuration
- Monitoring/measurement interval
- Transmisson (standard, alarm based)
- Alarming scenarios (database, mail, SMS)
- Datarecording
- Free programmable displays and graphics
- Dataimport (e.g. energy load)
- Data upload (XML, filetransfer, IEC)
- Download of configuration
- Firmware updates
- 10 times faster compared to SQL



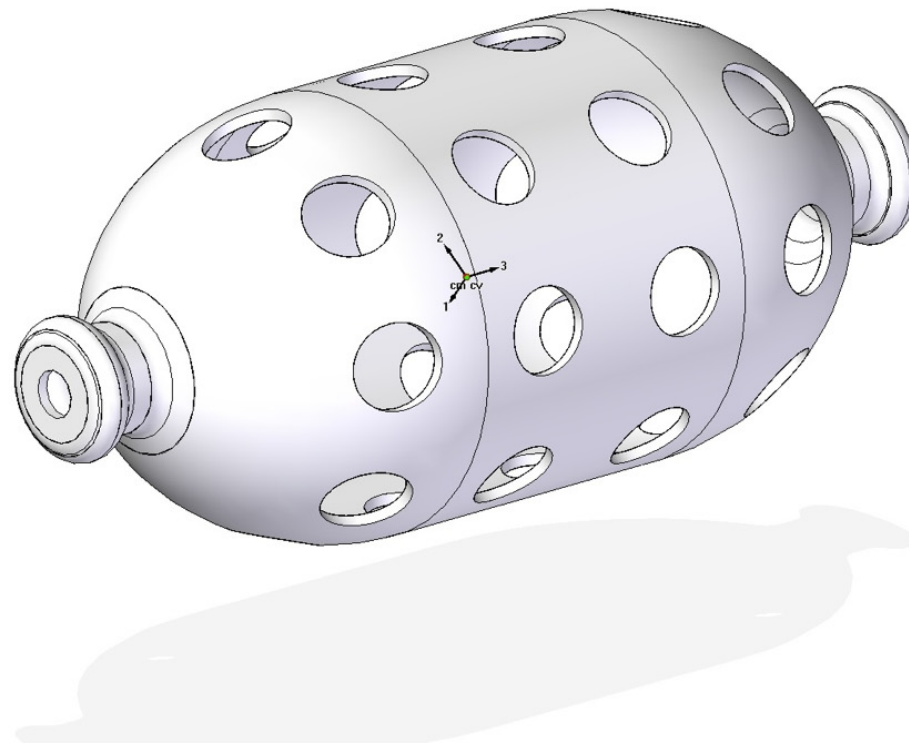
Accessories

○ Mounting kit



Accessories

○ Corona Protection



Options

- Windmeter (requires solar panel)
- CO2 (requires solar panel)
- Solar panel
- Ambient temperature
- Mast surface temperature
- Barometric pressure
- Humidity



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Windmeter

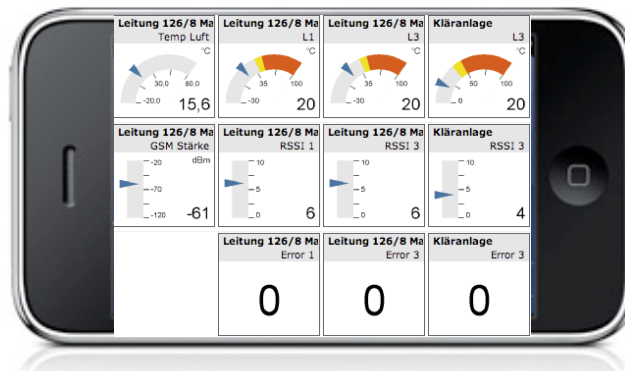
Installation and putting into operation



e.m.o Line sensor lss
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e.m.o Base station
bsb
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