



OMC-506 Barometric Pressure Sensor

The OMC-506 Barometric pressure sensor is a high precision sensor with which Observer can guarantee an accuracy of ± 0.5 hPa.

The OMC-506 is based on a stable, floating piezoresistive transducer and a micro-processor with build in 16 bit D/A converter. Output RS485 and an industry standard 4..20 mA signal

Features:

- High accuracy ± 0.5 hPa
- Temperature compensated
- Range 800..1100 hPa (on request 600..1100 hPa)
- RS485 output and 4..20 mA output
- Low power consumption
- Fast response
- Excellent Long term stability



Barometric pressure sensor in OMC-506 housing

OMC-506 Barometric Pressure Sensor

General Description

In all situations there is the possibility to ventilate to the outside air with a process connection.

Data Summary

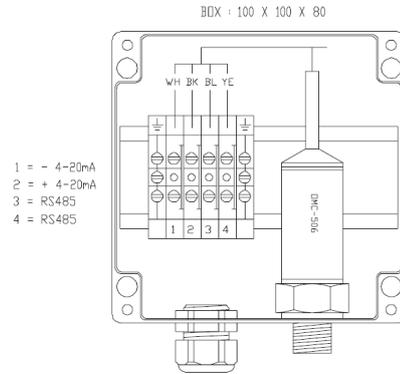
- Operating range 800 to 1100 hPa
- On request other ranges available
- Floating piezoresistive transducer
- Temperature compensated (polynomial compensation)
- Power 8..28 Vdc
- Output RS485 and 4..20 mA
- Accuracy ± 0.5 hPa
- Temperature range $-40^{\circ}\text{C}..70^{\circ}\text{C}$
- CE-conformity EN50081-2, EN 50082-2
- Material st.st. 316

Cable layout

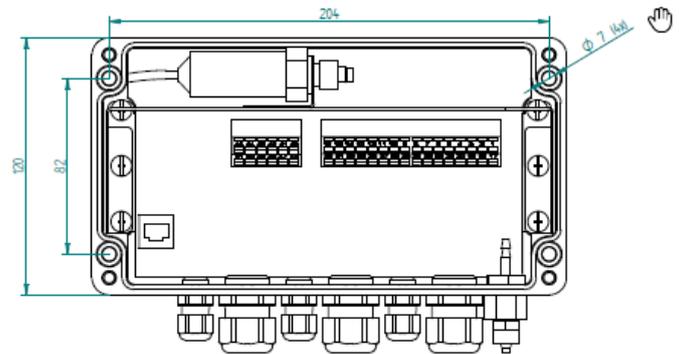
- White: Out/Ground
- Black: + Vcc
- Blue: RS485 A
- Yellow: RS485B (Red not used)

Optional

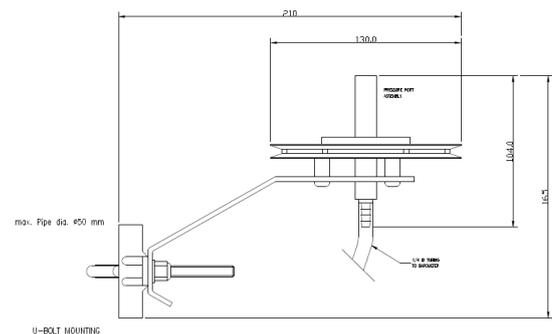
- OMC-509 Pressure Port to minimise airflow influences, when the barometric sensor is vented outside via tube.



OMC-506



OIC-506 in cabinet together with signal conditioning unit



OMC-509 Pressure Port

 **OBSERVATOR**
instruments

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