

Barometric Pressure Sensor Vaisala PTB110 S32100 / S32200 / S32300

1. wrap the nose clamp around the tower (under the shelter box), insert the BP65 sensor and continue to tight screw with the driver until the sensor is secure. Do not over-tighten.

Specifications

Ordering code: S32200 PTB110 2A 600 ... 1100 hPa Ammonit Cable Meteo-40

Sensor Plug Pin No. Baro Transmitter Thies PTB110 2A 500 ... 1100 hPa

Accuracy: ± 0.25 hPa ± 0.3 hPa @ 25°C ± 1.1 hPa @ 20°C

Frequency: 260 Hz 260 Hz 260 Hz

Ground: 260 hPa ± 0.3 hPa @ 20°C

Electrical Outputs: Ground [3] Output [4] Output [5]

The Vaisala BAROCAP[®] Barometer PTB110 is designed both for accurate

pressure measurement and for long-term stability. The sensor is designed for

pressure measurement over a wide temperature range and for long-term

stability. The sensor is designed for accurate pressure measurement and for

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Description	NRG BP65 Baro	1
Serial Number	9453000046	2
Height	2.2	3 Meters
Boom bearing	0.0	4 Degrees
Units	hPa	5

Connection diagrams: connection to Ammonit Meteo-40 data logger

The sensor is connected to the voltage input of the Meteo-40 data logger.

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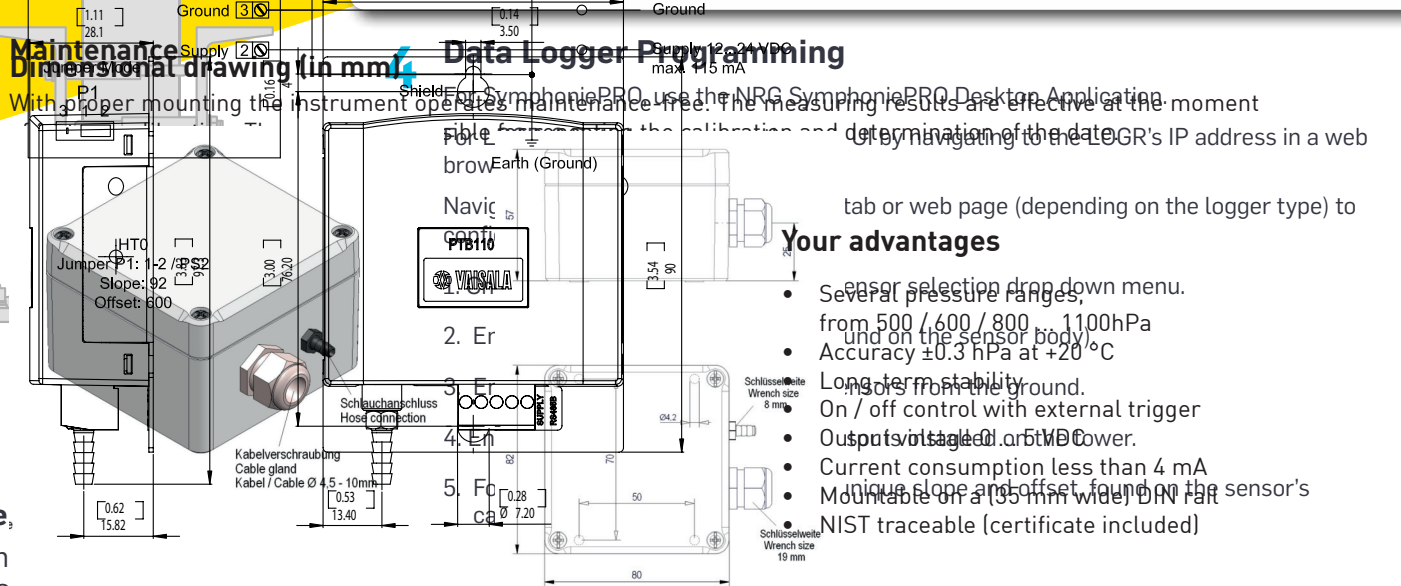
The sensor is connected to the voltage input of the Meteo-40 data logger.

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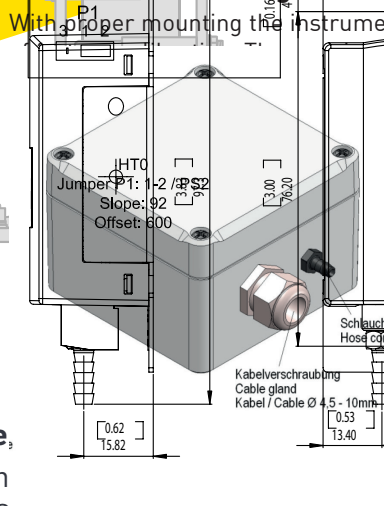
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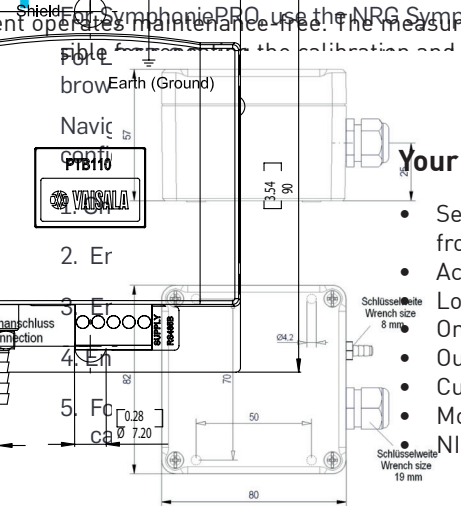
Units	hPa	5
Address	10036	4



Dimensional drawing (in mm)



Data Logger Programming



With proper mounting the instrument operates maintenance free. The measuring results are effective at the moment of determination of the date.

tab or web page (depending on the logger type) to

Your advantages

- Sensor selection drop down menu.
- Several pressure ranges, from 500 / 600 / 800 / 1100hPa (and on the sensor body).
- Accuracy ± 0.3 hPa at $+20^\circ\text{C}$
- Long term stability.
- On / off control with external trigger
- Outputs installed at 0VDC.
- Current consumption less than 4 mA
- Mountable on a 95 mm wide DIN rail
- NIST traceable (certificate included)

For more,
NRG Tech
+1 802.48
support@nrgsystems.com
nrgsystems.com



Barometric Pressure Sensor Vaisala PTB110 S32100 / S32200 / S32300

1. wrap the nose clamp around the tower (under the shelter box), insert the BP05 sensor and continue to tight screw with the driver until the sensor is secure. Do not over-tighten.

Specifications

2. Trim the pressure sensor to the required range with the trimmer potentiometer on the sensor body.
3. Wire the sensor to the data logger according to the connection diagram.
4. Program the data logger to read the sensor data.

Characteristic	Value
Operating range	500 ... 1100 hPa (mbar)
Accuracy	±0.3 hPa (mbar)
Frequency	260 ... 1260 Hz
Output	4-20 mA
Power consumption	< 4 mA
Temperature range	-40 ... +125 °C
Humidity	0 ... 100 %
Pressure range	500 ... 1100 hPa (mbar)
Accuracy	±0.3 hPa (mbar)
Frequency	260 ... 1260 Hz
Output	4-20 mA
Power consumption	< 4 mA
Temperature range	-40 ... +125 °C
Humidity	0 ... 100 %

Electrical data

Supply voltage	5 V DC
Output current	4 ... 20 mA
Power consumption	< 4 mA
Temperature range	-40 ... +125 °C
Humidity	0 ... 100 %

Accuracy

The PTB110 barometric pressure sensor uses the Vaisala P110 sensor technology. The sensor is calibrated at the factory and provides high accuracy and long-term stability. The sensor is suitable for use in a wide range of applications, including meteorology, agriculture, and industry. The sensor is also suitable for use in harsh environments, such as high humidity and high temperatures. The sensor is also suitable for use in applications where high accuracy is required, such as in the calibration of other sensors.

General

The PTB110 barometric pressure sensor is a compact, rugged, and reliable sensor. It is suitable for use in a wide range of applications, including meteorology, agriculture, and industry. The sensor is also suitable for use in harsh environments, such as high humidity and high temperatures. The sensor is also suitable for use in applications where high accuracy is required, such as in the calibration of other sensors.

Accuracy and stability

The excellent long-term stability of the barometric pressure sensor minimizes or even removes the need for field adjustment.

Connection diagrams: connection to Ammonit Meteo-40 data logger

The PTB110 barometric pressure sensor is connected to the Ammonit Meteo-40 data logger. The sensor is connected to the logger via a 4-wire cable. The cable is connected to the logger's 4-wire terminal block. The sensor is also connected to the logger's 5V supply and ground. The sensor is also connected to the logger's 4-20 mA output. The sensor is also connected to the logger's 1-wire interface.

Dimensions

The PTB110 barometric pressure sensor has a compact design. It is suitable for use in a wide range of applications, including meteorology, agriculture, and industry. The sensor is also suitable for use in harsh environments, such as high humidity and high temperatures. The sensor is also suitable for use in applications where high accuracy is required, such as in the calibration of other sensors.

Dimensional drawing (in mm)

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Maintenance

With proper mounting the instrument operates maintenance free. The measuring results are effective at the moment of measurement.

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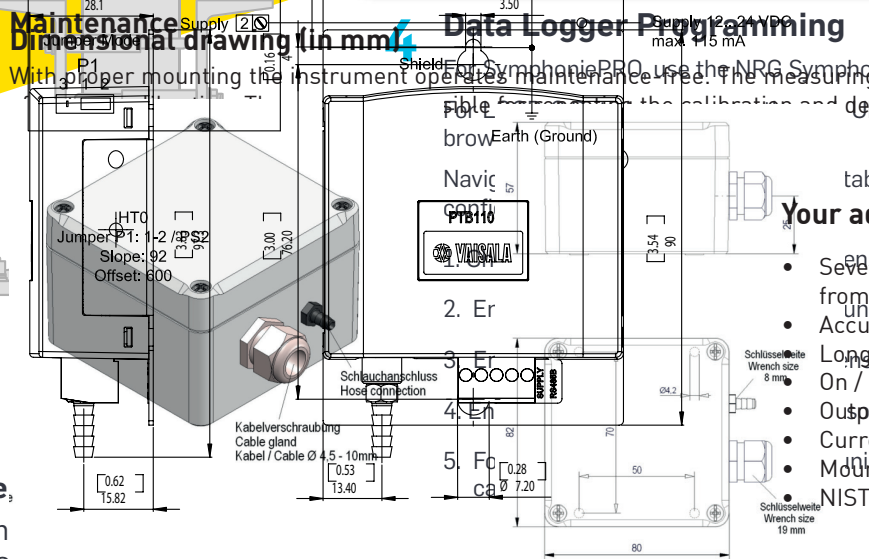
NRG BP05 Baro

Serial Number 9453000046

Height 2.2 Meters

Room bearing 0.0 Degrees

Units hPa



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Barometric Pressure Sensor Vaisala PTB110 S32100 / S32200 / S32300

1. wrap the nose clamp around the tower (under the shelter box), insert the BP65 sensor and continue to tight screw it until the sensor is secure. Do not over-tighten.

Specifications

2. Trim the nose of the sensor to match the tower's dimensions.
3. Wire the sensor to the data logger.
4. Program the data logger to read the sensor's output.

Sensor	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40 Analog Voltage	Supply Sensor
• Quick responding behaviour Frequency 260 ... 1260 Hz • Accuracy ±0.3 hPa at +20 °C • Supply voltage including IEC 17025 calibration	3	black	10 ... 30 VDC	Main Ground

Electrical data 3 black

Accuracy

Accuracy ±0.3 hPa at +20 °C

Connection diagram to Ammonit Meteo-40 data logger

The PTB110 barometric pressure sensor uses the Vaisala P110 sensor (see dimension drawing) and the Vaisala P110 sensor (see dimension drawing).

Baro Sensor

Vaisala PTB110

General

Accuracy and Stability

The excellent long-term stability of the barometric pressure sensor even removes the need for field adjustment.

Connection diagrams: connection to Ammonit Meteo-40 data logger

The PTB110 barometric pressure sensor is connected to the data logger via a cable (see dimension drawing).

Baro Transmitter

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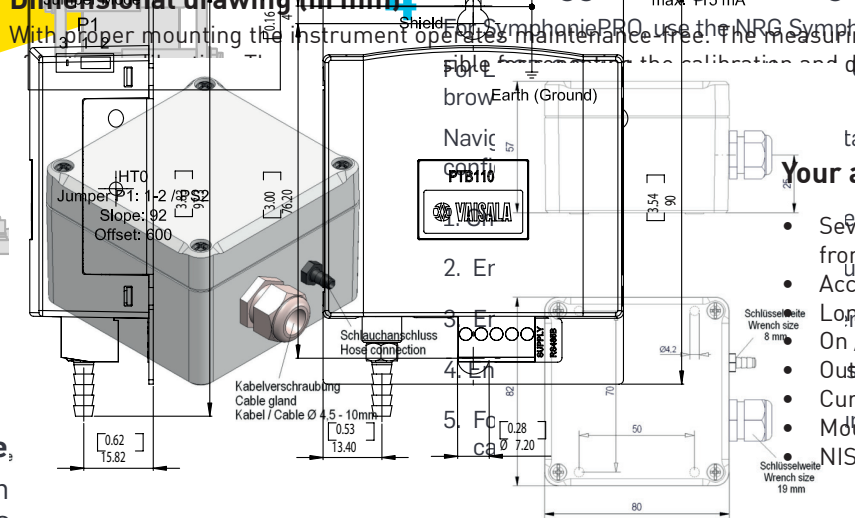
Baro Transmitter

Baro Transmitter

Baro Transmitter

Baro Transmitter

Dimensional drawing (in mm)

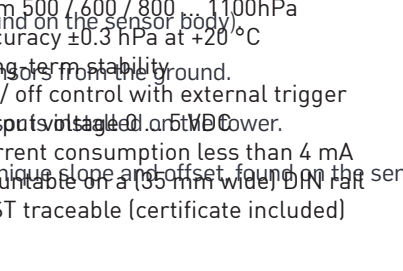
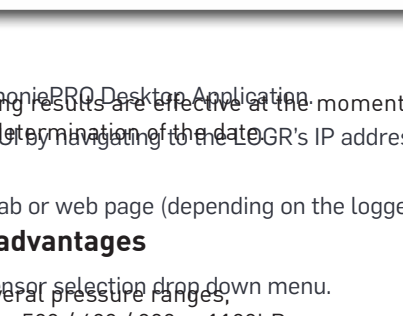
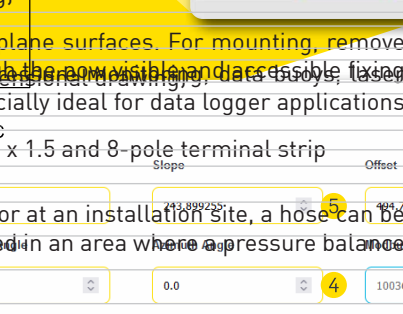
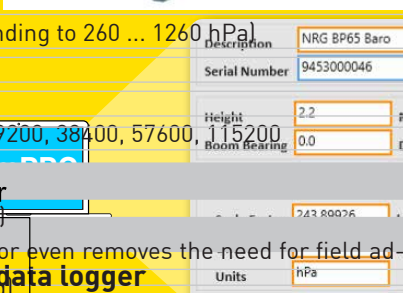
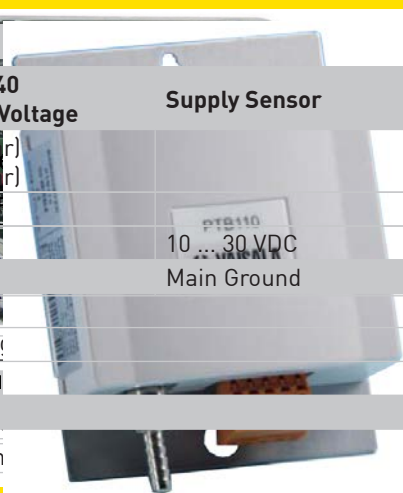


With proper mounting the instrument operates maintenance free. The measuring results are effective at the moment of determination of the data logger's IP address in a web

tab or web page (depending on the logger type) to

Your advantages

• Sensor selection drop down menu.
• Several pressure ranges, from 500 / 600 / 800 / 1100 hPa (and on the sensor body).
• Accuracy ±0.3 hPa at +20 °C
• Long term stability
• On / off control with external trigger
• Outputs installed at 10 VDC
• Current consumption less than 4 mA
• Mountable on a 195 mm wide DIN rail
• NIST traceable (certificate included)



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