

USB-BAR20-CAL



Product Description

USB BAR20 Precision barometer – calibratable

This USB-connected barometer allows for precise measurement of atmospheric pressure (1 kPa to 120 kPa) and altitude. Thanks to the use of a high-resolution ADC 24 bit, very small changes in atmospheric pressure can be sensed and sent to a computer over USB. If used to compute altitude, variations as small as 10 cm can be detected. Designed as a compact USB-Key form factor for easy integration even in space-constrained applications.

Specifications

Atmospheric pressure

- Range: 1 to 120 kPa (10 to 1200 mbar)
- Accuracy: ± 0.15 kPa at 25°C (1.5 mbar)
- Resolution: 0.0065 kPa (0.065 mbar)
- Internal factory calibrated coefficients
- ADC resolution: 24 bits
- Altitude resolution: approx. 10 cm
- Sensor IC: MS5611

Internal temperature

- Operating range: -40°C to 85°C^[1]
- Accuracy: $\pm 0.8^\circ\text{C}$
- Difference int. vs ext.: +3°C at 25°C (typical)
- Résolution: $< 0.01^\circ\text{C}$ (typical)

Miscellaneous

- Operating temperature range: -20°C to +70°C
- Powered through USB
- Communication: USB 2.0
- Enclosure: ABS Plastic, USB-key form factor
- Weight: 6 g
- Étanchéité: IP60

- Overall dimension: H 2.295" (58 mm) X W 0.759" (19 mm) X D 0.425" (11 mm)

[Dracal BAR20 – Datasheet](#)