



P-Log3020 - Baro

High-Precision Logging Barometer



A specially calibrated model (P-Log3020-baro-SP) provides an enhanced range of $-10\dots+40^{\circ}\text{C}$ at the accuracy of 0.6 hPa, thus making differential pressure measurements feasible at more than one site without the need to connect the instruments with tubes (e. g. in tunnels or caverns).

Freely Configurable Sampling Rate

You can freely select the sampling rate between intervals of 32 Hz up to 24 hours.

The P-Log3020-Baro's non-volatile memory can hold up to 4 million readings (2 million each für pressure and temperature). Its internal battery can power the logger for 4 years at a recording interval of 10 minutes. As with all D+K data loggers the standard lithium battery is user-replaceable.

Compensated Water Level Measurements



Barometric logger P-Log3020-Baro was specifically designed to be used complementary to our absolute pressure loggers and compensate for barometric pressure during water level measurements.

The logger can be set to record a barometric pressure value for each water pressure reading, thus ensuring accurate water level data even under briefly changing climatic conditions.

Applications Apart From Water Level Monitoring

The logging barometer is also well suited for collecting weather records or conducting differential pressure measurements with two aligned barometers.

Features

Records barometric pressure and temperature
Piezo-resistive pressure sensor with low hysteresis and excellent long-term stability
High-precision temperature compensation
Measuring range $0\dots 1\,300$ hPa and $-30\dots +60^{\circ}\text{C}$
Up to 4 million readings with 16 bit resolution
USB interface for fast transfer rates

Software InfraLog for Windows V5

The software InfraLog provides EASY, SECURE & CONVENIENT control for all Driesen + Kern products. After establishing a connection between your logger and PC, InfraLog automatically detects the device.



InfraLog V5 offers a multitude of features for data loggers by Driesen + Kern. InfraLog is available in three versions:

- **InfraLog Basic** (included in delivery)
- **InfraLog Light** (optional upgrade)
- **InfraLog Enhanced** (optional upgrade)

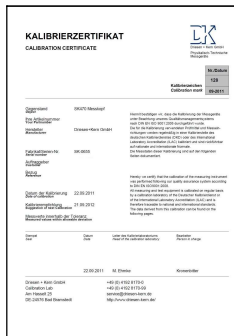
InfraLog Basic already offers fundamental features for setting up your logger as well as downloading, saving and converting data.

InfraLog Light comes with additional tools for graphic representation of your readings.

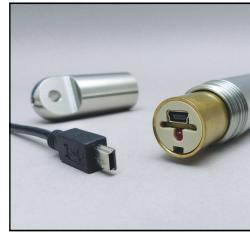
By far the most features are included in **InfraLog Enhanced** which also lets you create daily, weekly, monthly or annual reports.

Factory Calibration Ensures Reliable Results

We calibrate every sensor in our in-house calibration laboratory before shipping it. The corresponding certificate of calibration is included in delivery.



Certificate of Calibration



Easily transfer measurement data from the logger onto your PC/notebook via USB.

P-Log3020-Baro Specifications

Temperature	
Measuring range:	-30...+60°C
Accuracy:	±0.2°C (±0.1°C upon request)
Resolution:	0.01°C
Barometric Pressure	
Sensor:	piezo-resistive pressure sensor
Measuring range:	0...1300 hPa
Resolution:	10 Pa
Accuracy	
P-Log3020-Baro:	±0.6 hPa (@ 20°C)
P-Log3020-Baro-SP:	±0.6 hPa (@ -10...+40°C)
	(Differential pressure measurement with 2 loggers in 200 hPa range)
Long-term stability:	< 0.1% of offset/year < 0.1% of voltage/Jahr
General	
Dimensions:	d= 25 mm l= 215 mm
Weight:	480 g with battery
Housing:	V4A stainless steel
Battery:	LiTh-12 (user-replaceable)
Memory capacity:	2 million readings each for pressure and temperature
Interval:	1 s... 24 hrs selectable
Fast mode:	2, 4, 8, 16, 32 Hz
Battery life: (at given intervals)	4 years @ 1 minute 2 years @ 10 seconds 70 days @ 1 second