Driesen + Kern

P-Log3020 PA/PR - INT/EXT

Data Logger for Water Level and Temperature

P-Log3020-PR-EXT with capillary tube and suspension device for monitoring wells.

P-Log3020-PA-INT for absolute pressure. Can be used in addition with P-Log3020-Baro for barometic pressure measurements. Refer to P-Log3020-Baro data sheet for more.

P-Log3020 models are compact data loggers for recording water level and temperature. They offer high accuracy and resolution as well as a large memory and long battery life.

Two Logger Models
The P-Log3020 is available as either model **-INT** or model **-EXT**.

With the **-INT** model the sensors, electronics and battery are included in the compact stainless steel housing which allows operation without the need for a signal line to the surface. Conveniently lower the logger into the water using a rope or mount it on a pole or a plate.
Typical applications include scientific surveys, e. g. in salt marshes, permafrost regions or shallow water zones of rivers and lakes.
This logger records absolute pressure only. The P-Log3020-Baro is available for pressure compensated measurements.

Model **P-Log3020-EXT** is specifically designed for use in water management, especially monitoring wells. It comes with a capillary tub and suspension device for lowering it in wells starting from 2 inches. (Choose our MikroLog for smaller diameter wells.)

The **P-Log-3020-EXT** models are available with built-in absolute pressure (**-PA**) or gauge pressure (**-PR**) sensors and different cable lengths.

Data transfer is provided via USB interface. If you wish for the data to be available online we recommend the DK30000-D-GPRS (see separate data sheet).
In ASCII Stream Mode the units can be integrated into existing measurement infrastructure. (Modbus)

The large memory holds up to 4 million readings with the interval being selectable between 64 Hz and 24 hours.

Features
Water level and wave monitoring
Small build for monitoring wells of 2 inches and wider
Low-power technology for long-term operation
USB interface for fast transfer rates
Optional ASCII output (RS232)
User-replaceable battery

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)**

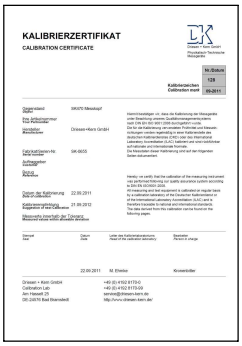
InfraLog Basic already offers fundamental features for setting up your logger as well as downloading, saving and converting data.

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.


KALIBRIERZERTIFIKAT
CALIBRATION CERTIFICATE

Certificate of Calibration

P-Log3020-PR-EXT with differential pressure sensor, integrated capillary tube and suspension device.

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

P-Log3020 PA/PR Specifications

Pressure/Water Level

Sensor:	piezo-resistive pressure sensor
Measuring range:	0..5 m, 0..10 m, 0..20 m, 0..30 m other ranges up to 500 m on request
Overpressure:	3x full scale range
Resolution:	< 0.01% FS
Accuracy (20°C):	±0.05% FS
Long-term stability:	< 0.1% of offset/year < 0.1% of voltage/year

Temperature

Measuring range:	-20...+60°C
Accuracy:	±0.2°C (±0.1°C on request)
Resolution:	0.01°C

General

Dimensions:	d= 25 mm, l= 215 mm
Weight:	480 g with battery
Housing:	V4A stainless steel
Battery:	LiTh-12 (user-replaceable)
Memory capacity:	4 million readings total
Interval:	1 second... 24 hours selectable
Fastmode:	2, 4, 8, 16, 32 Hz max. 64Hz (without temperature measurement)

Range	Resolution @ 4 HZ	Resolution @ 8 Hz	Accuracy
2 meters	0.2 mm	0.4 mm	±10 mm
5 meters	0.6 mm	1 mm	±10 mm
10 meters	1.5 mm	2.5 mm	±20 mm
20 meters	3 mm	6 mm	±20 mm

Battery life: (at given intervals)	4 years @ 1 minute 2 years @ 10 seconds 70 days @ 1 second

Subject to technical changes / P-Log3020 PA/PR V.1 03/2023

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