



# P-Log3020 PA/PR - INT/EXT

## Data Logger for Water Level and Temperature



Pegel Frankfurt Wasserstand 350 cm Luftiemperatur 100 °C Wassertemperatur 121 °C

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 builtin 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.

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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/Wate Sensor: Measuring rang Overpressure:	e: 0 r	piezo-resistive pressure sensor 05 m, 010 m, 020 m, 030 m other ranges up to 500 m on request 3x full scale range				
Resolution:	<	< 0.01% FS				
Accuracy (20°C	): :	±0.05% FS				
Long-term stabi		< 0.1% of offset/year < 0.1% of voltage/year				
<b>Temperature</b> Measuring rang Accuracy: Resolution:	:	-20+60°C ±0.2°C (±0.1°C on request) 0.01°C				
<b>General</b> Dimensions: Weight:		d= 25 mm, l= 215 mm 480 g with battery				
Housing:	Ň	V4A stainless steel				
Battery:	l	LiTh-12 (user-replaceable)				
Memory capacit	ty: 4	4 million readings total				
Interval:	1	1 second 24 hours selectable				
Fastmode:	n	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			

Battery life: (at given intervals)

20 meters

4 years @ 1 minute 2 years @ 10 seconds 70 days @ 1 second

6 mm



±20 mm

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3 mm