



P-Log3021-MMC

Data Logger with Memory Card for Water Level & Temperature



P-Log3021-MMC pictured in POM housing. Also available with V4A stainless steel body for measurements in depths of up to 500 metres.



The P-Log3021-MMC was specifically developed for wave measurements which demand an increased memory capacity, high sampling rates and a long battery life at the same time. Thus the P-Log3021-MMC can continuously record measurements for as long as 16 months at a 4 Hz sampling rate. Water level measurement is based on a piezo-resistive pressure sensor. For determining temperature a high-precision measuring resistor is utilized.

Maximum Resolution

Employing high-precision and long-term stable components we can offer a resolution of 0.2 mm and accuracy of ± 10 mm at a small range such as 2 m water column.

In order to compensate for changes in barometric pressure we recommend setting up the P-Log3020-baro on site, too.

Compact Build – Remote Data Transmission Optional

The logger comes in a robust housing made of impact resistant and shock proof POM which also protects the built-in battery and sensors.

Optionally, the logger is also available with a V4A stainless steel housing. The compact build is designed to operate autonomously and without a connection to the surface. After finishing a measurement, retrieve the device and download the data via USB.

You can also order the P-Log3021-MMC with a built-in GPRS modem. Readings are being locally saved first and once the logger falls dry data upload to your web server will be initiated.

Conveniently access your data via password protected FTP connection. In case you do not already own or rent a web server, we can host your data on Driesen + Kern web space for you.

Features

Water level and wave measurements
Resolution at 4 Hz: 0.2 mm at 2 m range and 2 mm at 20 m rang
Accuracy of up to ± 10 mm
Memory capacity for up to 1 billion readings
USB interface for fast transfer rates
Server based data upload optional

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 Readings

P-Log3021-MMC instruments are specifically calibrated for the needed measurement range. The corresponding certificate of calibration is included in delivery.

In our in-house calibration laboratory we have instruments for calibrating pH, conductivity, dissolved oxygen as well as temperature calibration oil baths at our disposal. Our high-quality testing instruments ensure long-term and thermally stable measurement results.



Certificate of Calibration

SD Card and Event-Driven Mode



The readings are saved to an SD memory card providing memory capacity for up to 1 billion readings each with date and time.

Within the logger's housing there are a small LCD and three buttons with which you can set up, start and stop the logger on site, e. g. when measurements are required to be taken across locations.

The P-Log3021-MMC also comes with an event-driven mode in which a new series of measurements is recorded once a predefined threshold is exceeded.

The logging interval can be selected between 1 second and 24 hours. In fast mode the interval can even be set to 2, 4, 8, 16 or 32 Hz.

P-Log3021-MMC-EVENT-POM Specifications

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

Pressure

Measurement Range in m H2O	Resolution @ 4 hz	Resolution @ 8 Hz	Accuracy
2 meters	0.2 mm	0.4 mm	±10 mm
5 meters	0.6 mm	1.9 mm	±10 mm
10 meters	1.5 mm	2.5 mm	±20 mm
20 meters	3.0 mm	6.0 mm	±20 mm

General

Dimensions: d= 90 mm, l= 382 mm
Weight/Housing: 2200 g / POM and alkaline battery (type D user-replaceable) VA4 stainless steel optional
Memory: 2 GB SD card / 1 bn readings
Interval: Fast mode: 2/4/8/16/32 Hz or 1 second to 24 hours
Battery Life: 2 years @ 1 s
 16 months @ 4 Hz
 10 months @ 8 Hz

Subject to technical changes / P-Log3021-MMC V.1 03/2023