Driesen + Kern

# pH-Log3030

## Data Logger for pH and Temperature

**Usage in Water Protection**
pH is one of the most important parameters when monitoring water quality in natural waters because it is vital to the health of animals and plants.

It is also essential for the quality of tap water as low pH values can lead to corrosion on metal piping and faucets.

The pH-Log3030 measures and records pH and temperature values and is designed for projects in environmental and water protection, drinking water supply and sewage treatment.

2 million readings each of pH and temperature can be saved in the data logger‘s memory. The data is preserved even when the battery dies during operation.

**How to Conduct a Measurement**
Configure the logger with a PC (start date/time, interval, measurement description) using the InfraLog software and deploy it to its designated measuring site.
In order to retrieve the data, connect the logger to your PC again. You can either export the measured data to Excel or display the results in a chart using InfraLog Light or Enhanced.
If downloading data via USB on-site is not possible or intended, the readings can be retrieved through remote transmission to a web server with another model. Refer to the data sheet of data logger model DK3000D-GPRS for more details.

**Calibration and Electrode Replacement**
The electrochemical pH electrode provides precise results over a wide measuring range. In order to sustain that accuracy even during long measuring periods the software offers a user calibration option. Contact D+K for the appropriate reference solutions.
A defective electrode can be replaced by the user.

| Features |
| --- |
| Electrode replacement and calibration by the user |
| High quality strong glass electrode |
| Measuring range 1...14 pH |
| USB interface for fast transfer rates |
| Simultaneously records temperature for ideal compensation |
| Large memory for up to 4 million readings |
| V4A stainless steel housing |

## 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.

IfnraLog V5 offers a multitude of features for water line 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.

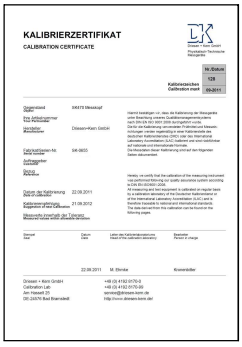
**InfraLog Light** comes with additional tools for graphic representation of your readings.

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

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

In addition, you can calibrate the pH electrode on site using our reference solutions.



KALIBRIERZERTIFIKAT
CALIBRATION CERTIFICATE

Driesen + Kern GmbH
Präzisionswaagen · Technische Messgeräte

Kalibrierzeichen
Calibration mark

Nr./Date.
028
03-2011

Gegenstand
Object
Typ
Type
Fabr. Artikelnummer
Fabr. Artikelnummer
Gerätehersteller
Manufacturer
Kalibriermittelnr. Nr.
Kalibriermittel
Kalibriermittel
Device
Device
Datum der Kalibrierung
Date of calibration
Kalibriermittelfrist
Suggestion of next calibration
Messunsicherheit der Calibration
Measuring uncertainty of the calibration

SK4370 Messkopf

Driesen+Kern GmbH

SK-0805

22.08.2011

21.08.2012

Hiermit bestätigen i.V. dass die Kalibrierung der Messgeräte unter Einsatz eines Qualitätsmanagementsystems nach DIN EN ISO 9001:2008 durchgeführt wurde.
Die Kalibrierung erfolgt mit Normalen, deren Werte in nationalen Vorlagen rückführbar sind/entsprechen einer Kalibrierstelle des deutschen Kalibrierdienstes (DKD) oder bei internationalen Normalen mit Kalibrierscheinen, die mit einer DKD-Kalibrierung auf nationale und internationale Normale.
Die Messwerte dieser Kalibrierung sind auf den folgenden Seiten dokumentiert.

Hereby, we certify that the calibration of the measuring instrument was performed following our quality assurance system according to DIN EN ISO 9001:2008.
All measuring and test equipment is calibrated on regular basis by a calibration laboratory of the Deutscher Kalibrierdienst or by using reference standards with certificates of the DKD. Therefore traceable to national and international standards.
The data derived from this calibration can be found on the following pages.

Datum
Date
Datum
Date
Leiter des Kalibrierlaboratoriums
Head of the calibration laboratory
Bearbeiter
Person in charge

22.08.2011 M. Ebrecke Kooordinator

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Certificate of Calibration

## pH-Log3030 Specifications

| | |
|---|---|
| **pH** | |
| Sensor: | Strong glass electrode (user-replaceable) |
| Measuring range: | 1...14 pH |
| Resolution: | 0.01 pH |
| Accuracy: | ±0.02 pH |
| **Temperature** | |
| Measuring range: | 0...+80°C (standard range) enhanced range on request |
| Accuracy: | ±0.2°C (±0.1°C on request) |
| Resolution: | 0.01°C |
| Operating depth: | max.100 m |
| **General** | |
| Dimensions: | d= 25 mm, l= 365 mm |
| Weight: | ca. 700 g with battery |
| Housing: | V4A stainless steel |
| Battery: | LiTh-12 (user-replaceable) |
| Memory capacity: | 2 million readings / variable (4 million in total) |
| Interval: | 1 second... 24 hours selectable |
| Fast Mode: | 2, 4, 8, 16, 32 Hz |
| Battery life: (at given intervals) | 4 years @ 1 minute<br>2 years @ 10 seconds<br>70 days @ 1 second |

Subject to technical changes / pH-Log3030 V.1 03/2023