Driesen + Kern

µS-Log3040

Data Logger for Conductivity and Temperature

µS-Log3040-INT with stainless steel housing

Taking Measurements
Prior to starting a series of measurements the data logger needs to be set up using a PC or Notebook (start time/date, interval, measurement description). Next, simply deploy it in the designated body of water. Afterwards you can download the readings using the USB interface and our InfraLog software which is included in delivery.

If downloading data via USB on-site is not possible or intended, the readings can be retrieved through remote transmission to a web server. Refer to the data sheet of model DK3000D-GPRS for more details.

Wide Variety of Applications
The µS-Log3040 simultaneously measures and records conductivity and temperature. Our standard model comes with a high yet dynamic measuring range which makes it suitable for monitoring limits in accordance with drinking water ordinance, lakes with salt water contamination or sewage surveillance.
Upper range limit is 100 mS/cm which means you can use the model µS-Log3040-INT-POM with its POM housing even in the ocean. The automatic range selection always provides the best measurement resolution.
The housing is entirely made of V4A stainless steel (optionally POM) and comes without any open sockets or connectors. It requires no cable run to the surface making it inconspicuous and robust.

For use e. g. in monitoring wells from which the logger is not supposed to be removed in order to download data, we offer the µS-Log3040-EXT with a suspension device.

Automatic Range Selection

- 0 ...0.4 mS/cm
- 0.4...1.0 mS/cm
- 1.0...2.0 mS/cm
- 2.0...3.8 mS/cm
- 3.8...7.9 mS/cm
- 7.9...100 mS/cm

Features
Low maintenance for operation up to 4 years
Automatic range selection for use in various applications
User-replaceable electrode can also be calibrated
High accuracy and resolution
Compact build
Large memory for up to 4 million readings
USB interface for fast data transfer rates
Low power consumption for long-term operations

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 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.

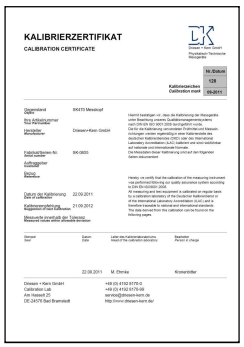
InfraLog Light comes with aditional tools for graphic representation of your readings.

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 conductivity electrode on site using our reference solutions.


KALIBRIERZERTIFIKAT
CALIBRATION CERTIFICATE

Certificate of Calibration

µS-Log3040 Specifications

Conductivity	
Sensor:	conductometric two-electrode cell (user-replaceable)
Measuring range:	0…100 mS/cm with automatic range selection
Resolution:	0.2% of FS
Accuracy:	2% of FS
Temperature compensation:	disabled by default (request on your order)
Temperature	
Measuring range:	0...+80°C (standard range)
Accuracy:	±0.2°C (±0.1°C upon request)
Resolution:	0.01°C
Max operating depth:	up to 100 m
General	
Dimensions:	d= 25 mm, l= 301 mm
Weight:	ca. 700 g with batteries
Housing material:	V4A stainless steel
Battery:	Lithium battery LiTh-12 (user-replaceable)
Memory capacity:	2 million each for conductivity and temperature (4 million total)
Interval:	1 second ... 24 hours 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

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