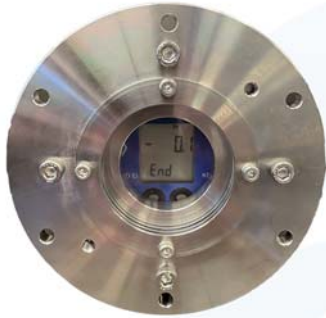




Seadraulics
Subsea Fluid Mechanics

SUBSEA PRESSURE & TEMPERATURE LOGGER



FEATURES

- High measuring accuracy, resolution and robustness
- High data security due to the use of a non-volatile memory
- Temperature measurements accuracy typically 0,5°C
- Long- or short-term recording of pressure and temperature
- Simple and well-structured configuration and read-out software for PC
- Combination of event-controlled recording and interval recording prevents unnecessary data being recorded (i.e. only measuring the pressure changes)
- Supply 3,6 V lithium battery
- Battery life up to 2 years @ 1 recording every 10 seconds
- suitable for immersion to 4000 msw
- Subsea housing dimensions 188 mm long x 112 mm diameter; weight in air 8 kg

DESCRIPTION

At the core of the Seadraulics Subsea Data Logger lies a Leo Record digital pressure and temperature logger from Keller Druck - an autonomous battery powered instrument with digital display, designed to record pressure and temperature over long or short periods.

Built into a stainless steel pressure housing with viewing window, the pressure and temperature logger is suitable for immersion to 4000 meters of seawater. Use this with ROV operable valves and/or a hotstab connection arrangement to perform pressure tests subsea. The unit can also be supplied with a stand alone frame to customers' requirements to deploy and leave for long term monitoring.

The pressure logger offers a range from 0 to 700 bar, up to 57,000 readings, $\pm 0.1\%$ accuracy and finally a 100 mbar resolution.

SOFTWARE

The Leo Record pressure and temperature logger is supplied with the 'Logger' Windows software for logger setup and downloading of data. Data can be viewed in table or graph format and exported to MS Excel.

It is advisable to setup and program the system on the bench before connection through the ROV. No ROV power is required.



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SUBSEA PRESSURE & TEMPERATURE LOGGER

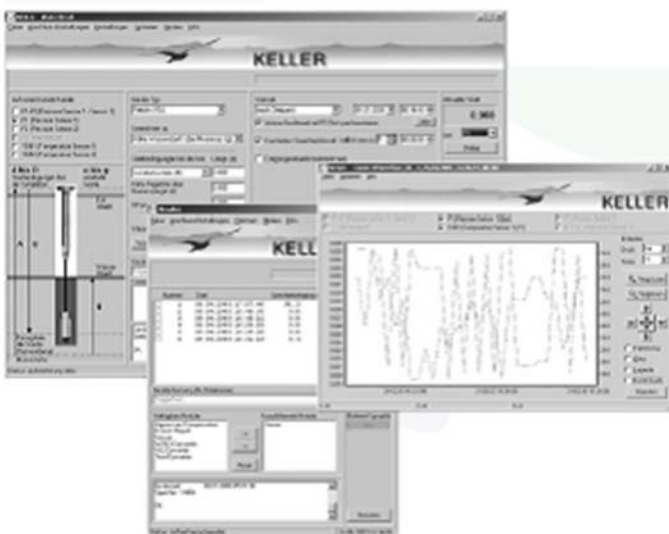
SPECIFICATIONS

Storage- / Operating Temperature:	-10...60 °C / 0...50 °C
Measuring Cycle:	Adjustable (shortest interval 1 x per second)
Memory:	≈57'000 measuring values with time indication @ a measuring cycle of ≤15 s ≈ 28'000 measuring values with time indication @ a measuring cycle of >15 s
Supply:	Qty 6 x 1.5V Alkaline Batteries, minimum 3 required
Battery Life:	up to 2 years @ 1 recording every 10 seconds
Pressure Connection:	G 1/4" (other threads on demand)
Temperature Measurements:	Accuracy typ. 0,5 °C
Interface:	RS485 / RS232
Material in Contact with Media:	Stainless steel (AISI 316L), Viton® O-ring, gold-coated ceramic diaphragm
Dimensions:	189 mm long x 112 mm diameter
Long Term Stability:	typ. 0,1 % FS
Total Error Band (0...50 °C):	typ. 0,1 % FS
Weight:	6 kg in Water, 7.5 kg in Air
Pressure Range, resolution, overpressure:	0...700 bar, 100 mbar, 700 bar 0...1000 bar 100 mbar 1000 bar

LOGGER 5

The Logger 5 software makes it possible to configure and read the data logger. This software assists users during measurements in the field, with processing the data and also with forwarding it to partners or end customers.

Measurement data can be displayed in graphic form, exported, compensated for depth pressure or converted into different units.



OVERVIEW OF FUNCTIONS: LOGGER 5

Pressure and temperature channels, selectable
Adjustable measurement interval (1s... 99 days)
Averaging with selectable number of measurements
Recording modes:
⇒ continuous interval measurement
⇒ Event-controlled recording <ul style="list-style-type: none"> • recording starts when value is exceeded • recording starts when value is undercut • recording starts when value changes
⇒ combination of continuous and event-controlled recording is possible
Adjustment of pressure zero point
Start measurements immediately or at a set time
Data storage: linear or ring-type memory
Battery status display
Online display of measuring channels
Management of notifications and images for stations



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