



## AUTONOMOUS DATA COLLECTOR

DATA LOGGING AT FAVORABLE PRICE

The DCX-22 ECO is an autonomous, battery powered instrument made of stainless steel designed to record water depth (pressure) and temperature over long periods.

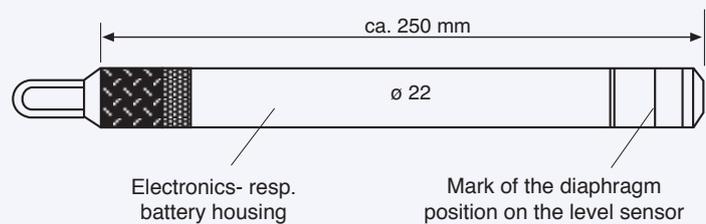
**DCX-22 ECO** The sensor, electronics and battery are housed in a sealed stainless steel tube, for submersible deployment. For data read-out the DCX-22 ECO must be recovered from the measurement point. The O-ring sealed end cap is then removed to access the data port.

The DCX-22 ECO works with an absolute pressure sensor. In shallow water depths where the influence of barometric pressure changes should be considered, it is recommended that a second data collector DCX-22 (Baro) see separate data sheet is placed at the surface, to record the barometric pressure. The PC then calculates the differential pressure resp. the water depth by subtracting the two measured values.

## DCX-22 ECO



DCX-22 ECO





**SPECIFICATIONS**

Pressure Ranges			<u>10 mWC</u>	<u>20 mWC</u>	<u>50 mWC</u>	<u>100 mWC</u>	
	DCX-22 ECO	PAA	0,8...2	0,8...3	0,8...6	0,8...11	bar abs.

Overpressure 2 x Pressure Range

PAA: Absolute. Zero at vacuum PR: Vented Gauge. Zero at atmospheric pressure (other ranges on request)

Supply	Lithium-Battery 3,6 V (Type AA)	Long Term Stability	max. 0,15 %FS
Battery Life *	10 years @ 1 measurement/hour	Temperature Compensation	-10...40 °C (others on request)
Output	USB	Temperature Measurement	Accuracy typ. ±1.0 °C
Electrical Connection	Mini USB	Shortest Measuring Range	1x per second
<u>Pressure Sensor Specifications</u>		Memory	57'000 measuring values @ storage interval ≤ 15 s, otherwise 28'000 measuring values (always with attributed time)
Accuracy (Linearity)	max. 0,1 %FS	Material	Stainless steel 316L (DIN 1.4435)
Comp. Temperature Range	-10...40 °C	Weight:	O-Ring: Viton® ≈ 325 g
Error Band **	max. 0,25 %FS ***		
Resolution	max. 0,0025 %FS		

\* exterior influences could reduce battery life      \*\* Linearity + Temperature Error      \*\*\* optional max. 0,05 %FS

**LOGGER 5**

The Logger 5 software makes it possible to configure and read autonomous KELLER data loggers. 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 air pressure or converted into different units. The online function displays the current device values.

The software is included in the scope of delivery for the interface converter cables, or it can be downloaded free of charge at [www.keller-druck.com](http://www.keller-druck.com).

- Supports Windows operating systems

**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:
    - 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

**Processing and forwarding measurement data**

- Graphic display of measurement data
- Simple export of measurement data and graphics (supports Microsoft Office and these file formats: CSV-1, CSV-2, XML, Hydras, TNO, Wiski, BNA)
- Generation of measurement reports
- Station information stored in SQ Lite database

