

Diver-DCX

Extended communication capabilities using telemetry systems



Benefits:

- Expands Diver monitoring networks to telemetry systems, offering “real-time” monitoring
- Provides built-in barometric compensated water levels; no post-processing required
- Pressure vent is made from GORE-TEX® offering reliable water resistance
- No internal power source required, allowing for flexible installation options

Certifications:

- Compliant with SDI-12 standard
- CE certified



Diver-DCX is shown deployed inside a nested monitoring well casing

Overview

Diver **D**irect **C**ommunication **eX**changer (Diver-DCX*) is specifically engineered to integrate Divers into any SDI-12 compatible telemetry system. The SDI-12 standard was developed to interface dataloggers with smart sensors for environmental data acquisition, and is used globally for applications in water resource management, industry, mining, and research.

Diver-DCX extends the communication format of Divers to any SDI-12 compatible telemetry system, enabling real-time digital transmission of water level and water quality data. The built-in pressure sensor provides barometric compensation of water levels collected by the Diver, which reduces the need for post-processing.

A temperature and pressure sensor on Diver-DCX provides air temperature and atmospheric pressure readings, reducing the need for additional sensors to measure these parameters. The robust compact housing and pressure vent, made from industry-standard GORE-TEX®, offer a durable water-resistant barrier to the internal electrical components, resulting in reliable operation. Since power is supplied by an external source (no internal battery is required), this allows the compact Diver-DCX to be mounted inside the well casing, translating to long-term, uninterrupted use.

Applications:

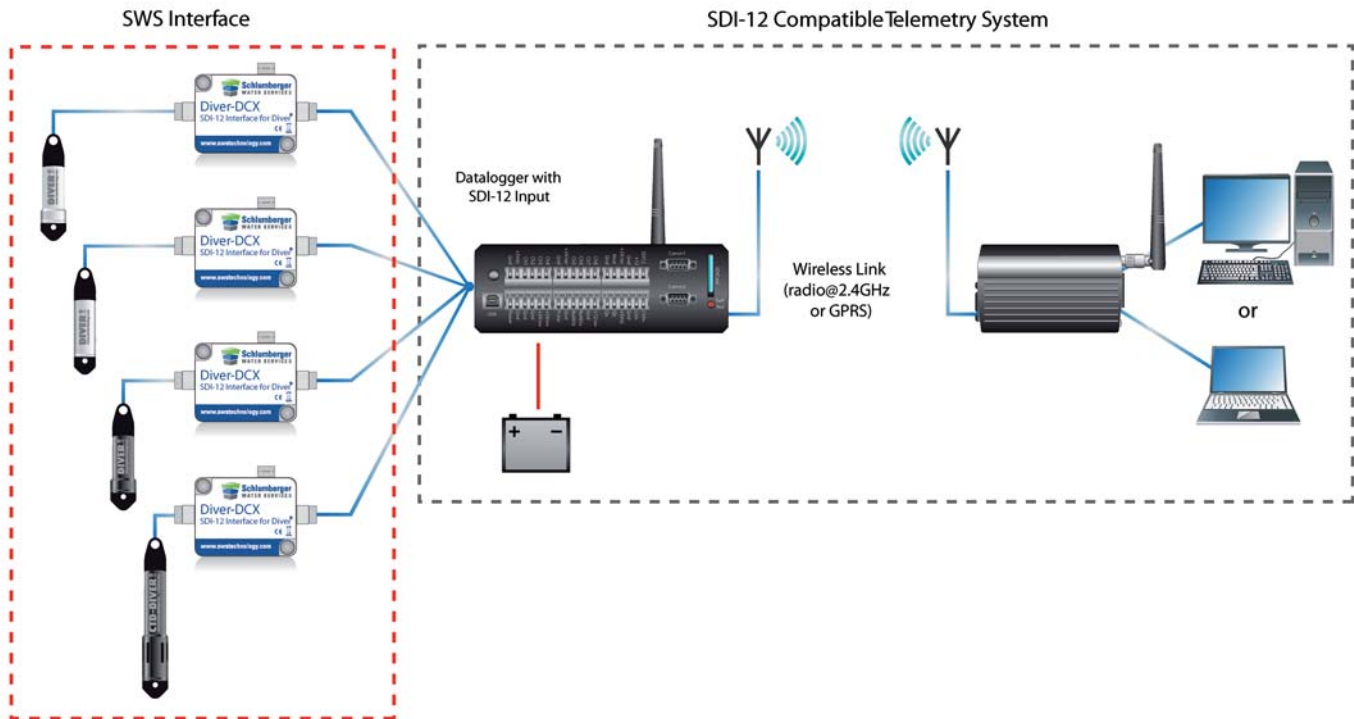
- Real-time monitoring of municipal water supplies
- Saltwater intrusion monitoring
- Monitoring water quality and quantity at mine sites
- Monitoring water level and salinity of reclaimed water
- Groundwater monitoring networks



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Connection of Diver-DCX to Divers SDI-12 ready telemetry system

Specifications

Storage temperature:	-30 °C to +85 °C
Operating temperature:	-20 °C to +80 °C
Input voltage:	+7 VDC to +15 VDC
Dimensions:	65 mm (L) x 50 mm (W) x 35 mm (H)
Protection grade enclosure:	IP66
Pressure sensor:	GORE-TEX® vent
Diver-DCX interface cable:	Length: 1 m to 15 m Diameter: 3.0 mm to 6.5 mm
Diver-DDC cable:	1 m to 300 m
Connectors:	PG7 (Diameter: 3.0 mm to 6.5 mm)

Temperature Sensor	
range	-20 °C to 80 °C
accuracy ¹	±1.0 °C
resolution	0.2 °C

Pressure Sensor	
range	400 cmH ₂ O to 1100 cmH ₂ O
accuracy ¹	± 2.0 cmH ₂ O
resolution	0.06 cmH ₂ O

¹typical accuracy.