

DSP 5000 SDI-12

Product code : 003518



Main features

- Low Power
- High accuracy
- SDI-12
- Easy to install
- Compact and waterproof

DSP 5000 is a highly accurate pressure sensor designed for water level measurement. It is specifically built for stand-alone systems, offering suitable power consumption for such applications. Its compact size makes it easy to install in various environments.

DSP-5000 is capable of accurately measuring water depths ranging up to 70 meters. This versatility allows it to cater to various applications with different depth requirements.

DSP-5000 is equipped with integrated digital electronics, significantly enhancing the performance level of the UNIK 5000 pressure sensor. By leveraging the SDI-12 protocol, it surpasses the capabilities of

traditional analog sensors. This protocol enables the transmission of fully pressure and temperature compensated readings, ensuring accurate and reliable data..

Easy to install

DSP-5000 is easy to install. It can be easily installed on a bank or along a bridge.

Robust

DSP 5000 is built using corrosion and impact resistant

materials. This robust construction ensures its ability to withstand harsh environmental conditions. Additionally, the sensor is equipped with a shielded cable.

Accurate

DSP500 high levels of precision and exceptional long-term stability, delivering reliable and consistent measurements over extended periods of operation.

Technical specifications

Measurement

Measuring range	350 mbar to 70 bar
Long term stability	0.05% FS/year
Accuracy	±0.1% FS
Response time	1s
Technology	Piezo-resistive

Accessories

- ① Metal sheath to protect the cable
- ② Earth stake

Support adapted to the field conditions of installation (bracket, ...)

Generated data*

Water level (m)

*Data generated by the P4-100 datalogger

Electrical specifications

Voltage	12V
Current	< 10 mA
Current max	15 mA peak
Standby	< 50 µA
Output	SDI-12 protocol

Environment

IP class	IP68
Materials	Stainless steel 316L or titanium (body), PVDF (nose cone), and cable sheath
Operating temperature	-40 to +80°C
Dimensions	Ø25 mm x 161.5 mm

