

SDI-12 SUBMERSIBLE PRESSURE TRANSDUCER

56-114



Specifically designed to meet the rigorous environments encountered in down hole, stilling well, & other surface water monitoring applications

APPLICATIONS

- Hydrological - Down Hole, Hydrostatic Pressure, Stilling Well, Weir Level
- Industrial - Tank Level
- Wastewater Lift Stations

FEATURES

- Includes isolated diaphragm sensor specifically designed for use with hostile fluids and gases
- Uses a silicon pressure cell fitted into a stainless steel package with an integral, compliant stainless steel barrier diaphragm
- Low overall current draw ideal for long term, remote monitoring systems
- Microprocessor based intelligent transducers with high accuracy and SDI-12 output
- Housed in 316 SS case
- High performance internal signal conditioning providing a 0.1% accurate output across the entire temperature range of -10°C to 50°C
- Kevlar strengthened, polyurethane cable to provide a high integrity, waterproof assembly with no measurable elongation when lowered into deep wells
- Nose cone made of delrin with a hydraulic damper to protect the device from high pressure pulses caused by underwater impact

ORDERING

56-114-05-25	Pressure Sensor, 5 PSI, 25 ft cable
56-114-05-50	Pressure Sensor, 5 PSI, 50 ft cable
56-114-05-100	Pressure Sensor 5 PSI, 100 ft cable
56-114-15-50	Pressure Sensor, 15 PSI, 50 ft cable
56-114-15-100	Pressure Sensor, 15 PSI, 100 ft cable
56-114-15-150	Pressure Sensor 15 PSI, 150 ft cable
56-114-15-200	Pressure Sensor, 15 PSI, 200 ft cable
56-114-30-100	Pressure Sensor, 30 PSI, 100 ft cable
56-114-30-150	Pressure Sensor, 30 PSI, 150 ft cable
56-114-30-200	Pressure Sensor, 30PSI, 200 ft cable
56-114-50-100	Pressure Sensor, 50 PSI, 100 ft cable
56-114-50-150	Pressure Sensor, 50 PSI, 150 ft cable
56-114-50-200	Pressure Sensor, 50 PSI, 200 ft cable
5100-0452	Desiccant
5100-0451	Dehumidifier, Aneroid Bellows
6111-1037-1	Junction Box with Bellows



SPECIFICATIONS

Specifications subject to change without notice

PRESSURE RANGE	5, 15, 30, 50 psi
ACCURACY	± 0.1% FS (0.004 psi for 5 psi unit) referenced to line from zero to full scale output; includes all linearity, pressure hysteresis, and repeatability errors.
OVER PRESSURE	2 times rated pressure
COMPENSATED TEMP RANGE	-10°C to +50°C
TEMPERATURE	Accuracy 1° C
OUTPUT	Resolution 0.01°C
EXCITATION	7.5 to 28.8 VDC
CURRENT DRAW	
SDI-12 (active)	7mA typ., 12mA max
Quiescent (Background Disabled)	0.25mA typ.
OUTPUT	SDI-12 Version 1.2, (RS 485)
CIRCUIT PROTECTION	Polarity, surge, & shorted output
DIAMETER	1.1 in. (28 mm)
CABLE	Polyurethane, vented, Kevlar strength member
HOUSING	316 SS, Delrin
VENT TUBE	1/16 in. I.D.