

PS2100

PRESSURE SENSOR Water Level & Temperature

- On-board Logger ●
- 2Mb Memory ●
- User Replaceable Internal Battery ●
- Ceramic Capacitive Transducer ●
- Quick Release Cable ●
- Logarithmic Sampling ●
- Minimum Logging Interval 0.2sec ●
- Ranges for 2.5mtr to 0-100mtr ●
- 36pt Calibration ●
- 22mm Diameter ●
- Highly Accurate ●
- Many MORE Software Features ●



TECHNICAL SUPPORT RELIABILITY ACCURACY



PS2100 Specifications

Standard Ranges Available		Max. Over Range		Range		Max. Over Range	
metres	feet	metres	feet	metres	feet	metres	feet
0-2.5	0-8	60	195	0-40	0-130	250	820
0-5	0-15	60	195	0-75	0-245	400	1300
0-10	0-30	100	325	0-100	0-325	400	1300
0-20	0-65	180	590				

Other ranges on request.

Advanced temperature compensation.

Standard Cable Lengths

Metres: 1, 3, 5, 10, 15, 20, 30, 50, 80, 100, 150, 200
Feet: 3, 10, 15, 30, 50, 65, 100, 165, 260, 325, 490, 650
Other lengths available upon request

Operating Temperature Range

0 to 50°C

Linearity

Pressure: ±0.05% FS (Combined linearity, hysteresis and repeatability)

Temperature: ±0.2°C

Overall Accuracy

Pressure: ±0.1% FS (Over full pressure and operating temp)

Temperature: ±0.2°C

Battery Voltage: ±5%

Resolution

0.000012% FS (23 bits Uni-Polar)

Battery Life

12months unattended logging @15 minute intervals

External Supply Voltage

Supply Limits: 9-30VDC

Reverse polarity protected to 30V

Surge current protected to 19A peak

Self Resettable Fuse Over-current Protection

Operating Current Consumption (12VDC input)

3mA (Sleep Mode)

11mA (Logging Measurement Mode)

20mA (Logging/Measurement Mode With RS232

Communications)

Maximum Continuous Operating Over-Voltage Protection 33V

EMC Tested and Approved to following Standards:

EN 50204

EN 61000-6-3

EN 61000-4-2

EN 61000-4-4

EN 61000-4-5

EN 61000-4-6

Internal Batteries

Voltage Range 6.0V to 7.8V

Operating Current Consumption:

50µA (Sleep Mode)

6mA (Logging/Measurement Mode)

18mA (Logging/Measurement Mode With RS232

Communications)

Reverse Polarity Protected

Recommended Battery: 2x TADIRAN, 1/2AA 3.6V Lithium

Low Battery Indication: 5.65V to 5.95V

Power On Reset Time

5 secs

Warm Up Time

2 seconds to stable reading

Sensor Type

Ceramic Capacitive Pressure Transducer

Memory

2Mb Data Flash

User Definable - Memory Wrap

Data Storage

Approx 100,000 single channel readings/User Defineable
Measuring Units

Maximum Logging Rate

5Hz (0.2 seconds)

Storage Temperature Range

-10 to 60°C

Weight

410g (15oz)

Dimensions

380mm Length (15in)

22.5mm Diameter (0.9in)

Cable

12 core Polyurethane sheathed with internal 3mm vent tube, OD 8mm. Cable terminated with locking waterproof connector at one end and 7 pin connector with flying power leads and vent at the other.

Features

Output

RS232-E (EIA-232) Compatible

ESD Protection (15kV) on RS232 Lines

Average Transfer Rate: 1kb/sec

A-D Converter

24 Bit Converter on-board

Mains Frequency Rejection (50Hz to 60Hz)

Wetted Materials

Ceramic, Passivated 316 Stainless Steel, Viton, Polyurethane

Software Supplied

SmartCom, Aquagraph

Technical Support

The correct choice of sensor should be supported by professional advice to ensure long term success in the field. **Greenspan Technical Services** is dedicated to customer support and commissioning of sensors with a full range of training and consulting services.

A full technical support and field advice service can be accessed by ringing the Customer Service Manager on **(07) 4660 1888**.