

Designed For Reliability...

WATER LEVEL

General Description

The HyQuest Solutions Model WL2100D is our latest generation of dry pressure transducers. It allows the measurement of water head to a fine degree of accuracy and repeatability, due to full temperature compensation. The transducer also interfaces via SDI-12 or 4-20mA. The W2100D consists of a strain gauge bridge sensing element fitted to a housing. The strain gauge bridge is type 316 Stainless Steel and the housing is a power coated die-cast aluminium enclosure. The electrical connection is made via a multicore cable.

The WL2100D output is both SDI-12 and 4-20mA compatible but not at the same time. This allows any SDI-12 or any 4-20mA recording device to communicate with the pressure transducer. The operator may use the SDI-12 to RS232 adaptor cable and then communicate using RS232 from a PC. This special mode is enacted on each command by proceeding each SDI-12 command with an ascii '*' rather than a 'break'. When the ascii '*' is detected, all of the timing/break requirements of the SDI-12 are removed. Commands may be typed from a terminal program such as "Hyperterm"

Features

- Water level monitoring & recording
- High accuracy $\pm 0.05\%$ F.S. BSL
- Pre-calibrated sensor
- Temperature compensated
- Output signal SD-12 or 4-20mA

Specifications

- Operating Range: 100kPa (10m), 200kPa (20m), 300kPa (30m)
- Overpressure: 1.5 x Range
- Supply Voltage: 9V - 30VDC (beyond SDI-12 specification Version 1.2)
- Supply Current: 2.0mA nominal in SDI-12 mode
- Output Signal: SDI-12 Compliant (Version 1.2) OR 4-20mA (The user selects)
- Overall Accuracy: + 0.05% F.S. BSL
- Long term stability: Typically + 0.03% FS/annum
- Measurement Cycle: Every 4 secs (in 4-20mA mode), When requested (in SDI-12 mode)
- Recommended Warm Up Time: 15 secs (after power is first applied)
- Operating Temperature range: -20C to +60C (Compensated over this range)
- Electrical Connection: 3 Wires+12V

Power (red) SDI-12 Data (white) 0V Gnd (black)

- Vented Cable: 1 metre of 3 core vented cable
- Voltage Spike Protection: Will withstand a 600V voltage spike in accordance with ENV50142 without damage when applied between excitation lines and case.
- Calibration: Over full pressure range.
- Insulation: Greater than 100Mohm at 500V d.c.
- Dimensions: (150mm x 60mm x 35mm)
- Mass: 0.45 kg (excluding cable)



Model WL2100
DRY PRESSURE TRANSDUCER

N.B. Specifications are subject to change at any time without notice.



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