



RANGES

6 Gauge Ranges

0-15 psig to 0-200 psig

FEATURES

- No Mercury
- 0.0001% Resolution
- Low Power Consumption
- 0.02% or Better Accuracy
- High Stability and Reliability
- Fully Calibrated and Characterized
- Easy Installation and Low Maintenance
- Bi-Directional RS-232 Intelligent Output
- ISO 9001:2000 Quality System – NIST Traceable

APPLICATION AREAS

Hydrology	Dam Height Monitoring
Tide Gauging	Manometer Replacement
Stream Gauging	Hydrostatic Tank Gauging
Ground Water Studies	

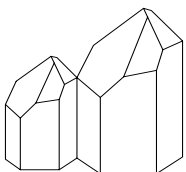
Paroscientific, Inc. manufactures and sells a complete line of high precision pressure instrumentation. Digiquartz® Transducers are essential for a variety of application areas where **high resolution, accuracy, reliability, ruggedness, long-term stability, low power consumption** and **low cost of ownership** are important requirements.

Digiquartz® PS-2 Water Stage Sensors provide the ultimate precision in water level measurements. These non-contact, mercury-free gauge transmitters provide high accuracy level measurements when used in conjunction with gas purge bubbler systems. Typical application accuracy of 0.02% or better is achieved even under difficult environmental conditions. Desirable characteristics include 0.0001% resolution, low power consumption, high reliability, easy installation and low maintenance costs.

The PS-2 consists of a Digiquartz® Transmitter, over-pressure relief valve, and pressure and electrical connections installed in an environmental splash-proof enclosure. An installation kit, a Programming and Operations Manual and software are also included for easy set-up and pressure-to-level calculations.

Commands and data requests are sent via two-way RS-232 serial interface. Output pressure is fully thermally compensated using a quartz crystal temperature signal. Digital outputs are provided directly in engineering units and all intelligent transmitters are preprogrammed with calibration coefficients for full plug-in interchangeability. The RS-232 interface allows complete remote configuration and control of all operating parameters, including resolution, sample rate, choice of engineering units, integration time, and sampling requests. New and enhanced features include selectable baud rates up to 115,200 baud, synchronization of measurements with time-based integration, improved high-speed continuous pressure measurements, a power management “sleep” mode, data formatting features, and unit identification commands.

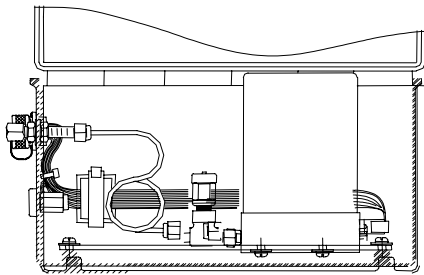
A Quality Management System that is certified to the requirements of the ISO 9001:2000 International Quality Standard provides consistency in our products and processes from design and development through production, calibration, test, and servicing. Our quality system and commitment to excellence ensure customers of outstanding products and services. As a result, we offer a **market-leading** five year limited **warranty** on all Digiquartz® Transducers with the first two years covered at 100%.



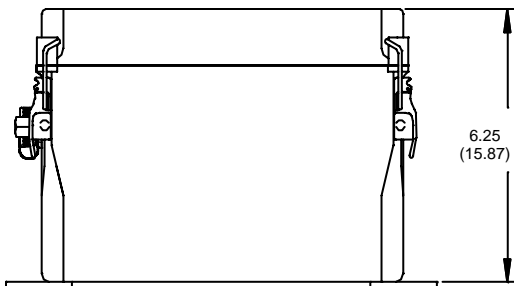
Paroscientific, Inc.
Digiquartz® Pressure Instrumentation



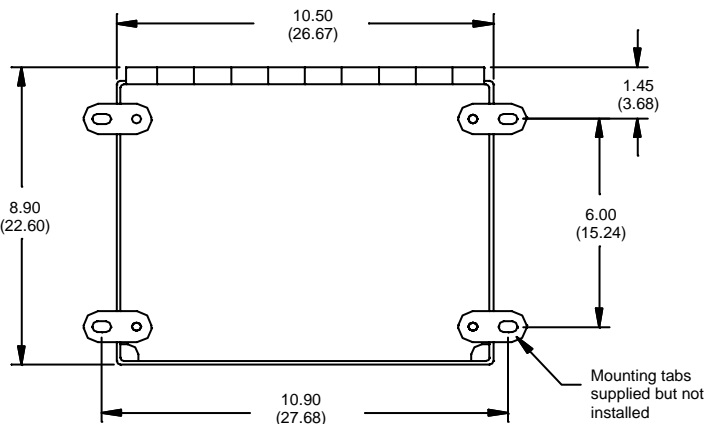
Series PS-2 Water Stage Sensors



PS-2 Internal View



PS-2 Side View



PS-2 Bottom View

PERFORMANCE

Total Accuracy Better than 0.02% of Full Scale
 Repeatability $\pm 0.005\%$ Full Scale
 Hysteresis $\pm 0.005\%$ Full Scale

CHARACTERISTICS

Over-pressure relief valve is set to 120% of transmitter full scale.

Pressure connection fitting is 1/8" Parker A-Lok fitting or equivalent.

Mating connectors and pressure connection tubing are included with installation kit.

Conformance and temperature compensation equations and calibration coefficients are provided with each transducer and factory installed in the internal microprocessor-based intelligent electronics packaged within the transmitter.

Weight 6 lb (2.72 Kg) Nominal
 Power Requirements +6 to +16 VDC
 Current Consumption 18 mA Quiescent, 32 mA Max

ENVIRONMENTAL

Overpressure 1.2 times Full Scale
 Operating Temperature Range - 40 °C to +60 °C

ORDERING INFORMATION

Pressure Range		Model	Part Number
psig	kPa		
0-15	0-103	PS-2-15G-2	1175-021
0-22	0-152	PS-2-22G-2	1175-022
0-30	0-207	PS-2-30G-2	1175-023
0-100	0-689	PS-2-100G-2	1175-024
0-150	0-1034	PS-2-150G-2	1175-025
0-200	0-1379	PS-2-200G-2	1175-026

Dimensions are inches—parenthesized dimensions are in centimeters

Paroscientific, Inc.

4500 148th Ave. N.E.
 Redmond, WA, USA 98052
 Tel: (425) 883-8700
 Fax: (425) 867-5407
<http://www.paroscientific.com>
 E-Mail: support@paroscientific.com

