Digiquartz® Accessories

Model 735 Intelligent Display

The Model 735 Intelligent Display performs all of the functions of the Model 745 High Accuracy Portable Standard with the frequency inputs from one external Digiquartz® Transducer. It contains an intuitive Front Panel Menu System, Intelligent Interface Board, 2-Line Display, RS-232 communication port, tare capability, and transducer connection terminals.

The Model 735 is powered continuously from its AC adapter or for up to 20 hours from our AA batteries. FREE Digiquartz® Interactive, Digiquartz® Assistant and Digiquartz® Terminal software are included to set up, configure, sample, plot and log data from the Model 735.

High Performance Pressure Port (DigiPort)

Accurate measurements of barometric pressure require an environmentally rugged pressure port design that minimizes pressure errors under dynamic wind conditions. Wind tunnel and field tests of the high-performance pressure port (DigiPort) used on the Paroscientific MET4 Meteorological System show superior performance over all other ports. Barometric readings with the MET4 pressure port system easily meet the requirements of GPS Meteorology, Weather Stations, Digital Altimeter Setting Indicators, High-Resolution Measurements of Atmospheric Waves, and Aircraft Wake-Turbulence Detection.
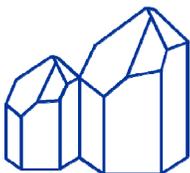
The high-performance DigiPort is now optionally available for use with the Model 765-16B Portable Barometric Standard and all other Digiquartz® Barometric Instruments. It provides barometric accuracy of better than 0.08 hPa in strong winds, all wind directions, pitch or tilt angles up to 25 degrees, rain, and freezing conditions. It outperforms open ports, single ports, single disks, shrouded pipes, closely spaced dual-disks, multi-hole probes, probes incorporating spheres or cones, and swiveling pitot tubes with static pressure inlets.

Model 715 Display

The Model 715 displays pressure and temperature data from all Paroscientific Intelligent Transmitters that have Dual RS-232 and RS-485 interfaces. The two-line, 16 character, alphanumeric, backlit, liquid crystal display is set up with transmitter commands and includes software. Display functions include pressure and temperature values with engineering units, overpressure warning, tare indicator, user-defined text messages, and a horizontal analog bar graph showing percentage of full-scale pressure.

The Model 715 will respond to display commands from the transmitter, computer, or other serial host on either the RS-232 or RS-485 port. For stand-alone operation, it can display data whenever power is applied to the transmitter. Set-up and data acquisition software are included at no extra charge.

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Intelligent Interface Board

Intelligent Interface Boards are microprocessor-based interface systems that process the frequency outputs from one Digiquartz® Transducer. Dual serial interfaces are available: RS-232 and RS-485. The user may program the sample rate, integration time, engineering units and communication parameters via the serial interfaces. Integrated systems may be formed by combining multiple transducer/board combinations within serial or multi-drop networks.

All boards are compatible with the Model 715 display.

Over-pressure Relief Valve

Paroscientific pneumatic pressure relief valves provide over-pressure protection for Digiquartz® Transducers, Transmitters, and Standards. Each pneumatic relief valve is calibrated at the factory to ensure proper protection and positive sealing. Pressure relief valves are available in a variety of pressure ranges.

Underwater Cable Assembly

Paroscientific underwater cable is available for both frequency and serial output depth sensors. The cable has a PVC jacket and the mating connector is molded to form a complete watertight assembly.

A vented cable is available for gauge depth sensors and contains a nylon vent tube, which allows compensation for barometric pressure changes.

PS-2 Enclosure

PS-2 Enclosure Kits are designed to accept Series 1000 Intelligent Transmitters with RS-232 interface. The enclosure kit is comprised of a splash-proof box, over-pressure relief valve, wiring harness and connection hardware.

Each enclosure kit is designed for a specific pressure range and interface.

The combination of the Series 1000 Transmitter and PS-2 Enclosure Kit provides a reliable system for mercury manometer replacements.

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