

PT2

WIRELESS MULTI-PARAMETER ANALYZER

WIRELESSLY COMMUNICATES WITH UP TO 16 SENSORS

Optical Dissolved Oxygen—Suspended Solids—pH—ORP—Any Sensor Combination

The Insite Instrumentation Group PT2 multi-channel analyzer is a unique system that combines advanced electronics with the latest in sensor technology. The analyzer will wirelessly communicate with up to 16 sensors and accepts any combination of DO, SS, pH, or ORP sensors. The system allows for flexible and economical process monitoring and control. The DO sensor does not need membranes, fill solutions, nor replaceable sensor caps. The SS sensor is based on near infrared technology, eliminating inaccuracies caused by changes in the process color. The pH electrodes are flat glass, double reference junction with temperature compensation. The ORP electrodes are flat glass, double reference junction. Both pH and ORP electrodes feature a quick disconnect design that makes changing electrodes a snap and reduces down time due to electrode maintenance. All sensors can be automatically self-cleaned which significantly reduces maintenance and increases sensor reliability.

The PT2 has an outdoor line of sight range of up to one mile. If the PT2 is mounted indoors the closest sensor should be within 600 feet. The PT2 and its sensors form a ZigBee compliant RF network with self-healing mesh technology. This ensures trouble-free communications. This significantly reduces installation costs as there is no need for interconnecting cable or conduit.

The backlit display can be programmed to show one, two, four, eight, or sixteen sensor readings continuously. If only one channel is displayed a trend graph of the last twenty four hours for that sensor will also be displayed. All sensor status and readings can be sent to the SCADA system or to a PLC via the two wire RS485 ModBus output.

Future upgrades to the software or firmware can be easily accomplished using a standard thumb drive in the provided USB port on the main circuit board. All programming and setup is performed at the PT2 keypad with a simple menu system that is easy to understand and navigate.



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PT2 SPECIFICATIONS

Measuring Ranges	DO — 0 to 25 ppm SS — 0 to 30,000 mg/l pH — 2 to 12 pH ORP- +/- 2000mV
Response Time	95% in less than 60 seconds
Sensor Check	Automatic self diagnostics
Outputs	RS-485 Modbus RS-232 serial
Memory Backup	All user settings stored in nonvolatile memory
Display	Backlit graphical LCD display with UV protection 320 x 240 pixel resolution Viewing area 2.6 x 3.45 in (92 x 122 mm) Contrast adjustment via keypad Capable of continuously displaying all channels
Communications	ZigBee compliant RF with self-healing mesh technology
Ambient Temperature	minus 20 degrees C to 70 degrees C
Ambient Humidity	0 to 100 percent
Input Power	100 to 240 VAC, 50/60 Hz, 1A 45 Watt (fused)
Enclosure Rating	NEMA 4X, IP65, Polycarbonate ABS
Approvals	FCC Part 15.247
Cerification	CE
Mounting	Handrail or surface Sunscreen recommended for outdoor mounting
Dimensions	9.25 x 9.0 x 4.5 inches (235 x 229 x 115 mm)
Weight	Approximately 3.0 pounds

20 Series

Wireless Communications



DO SS pH ORP

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