PRECISION DIGITAL – INDICATORS & CONTROLLERS
Intelligent and Efficient Digital Display and Control Instrumentation

PRECISION DIGITAL

New Technology – Innovative Products – Diverse Range of Applications

For more than 35 years Precision Digital displays and controllers have been providing instant, convenient and practical solutions to a diverse range of applications

From explosion-proof meters and controls with safe touch thru-glass buttons to simple to operate and install loop-powered intrinsically safe and non-incendive meters; Precision Digital products have performed reliably when display and control are required for flow, level, pressure and temperature applications.

Packaged for panel, field and surface mounting, wherever operators want more awareness and control; Precision Digital products are designed to accurately display and control critical process information in challenging environments, such as hazardous areas and exposure to severe outdoor elements.

PROCESS METERS AND INDICATORS: Available in a wide range of **Process Meters and Indicators** from alarm annunciators to multi-line digital displays, digital panel indicators include LCD or LED displays to read process (voltage and current), pulse, temperature, or Modbus inputs. They can provide indication, alarm, and control outputs ranging from relays or analog outputs to Modbus serial communications. Discrete input alarm annunciators include audible alarms and ISA alarm sequencing including first-out indication.

AUTO-TUNE PID CONTROLLERS: **Auto-Tuning PID Controllers** provide high accuracy control. Bright LED displays are easily viewed from wide-angles and a distance. Configurable for a variety of process inputs, including thermocouple, RTD, and 4-20mA. Serial interface options for communication across networks include protocols for Master/Slave set point control, MODBUS, ASCII and RTU, and PC software.

FLOW COMPUTERS AND CONTROLLERS: Designed for controlling volume or mass flow in a variety of chemical and compound processing applications. The **Flow Computers and Controllers** provide an alternative to local control loops and display flow rate, alarms, set point, and total. The flow rate controllers feature large, easy to read displays.

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TEMPERATURE AND LEVEL METERS: A variety of **Temperature Meters**, display, and controllers are available ranging from digital panel meters to explosion-proof displays. Thermocouple, RTD, or transmitter inputs can be directly input into the meter for a simple temperature display. Various outputs including relays and 4-20 mA analog outputs can be used for temperature control or to make the display a temperature transmitter and monitor.

Level Meters include digital panel meters and explosion-proof displays ideal for showing level in height, percent, or volume. The meters provide clear, easy to understand information from any level transmitter. Outputs include relays, open collector, and 4-20 mA analog outputs that can be used to monitor, alarm, or control a level process. Select products offer level specific capabilities, such as pump alternation control and dual-scale display showing a combination of height, volume, and percent from one input. In addition to standard decimal format displays, feet and inches displays offer the ability to read level in clearly labeled familiar units.

FLOW RATE METERS AND FLOW RATE/TOTALIZERS: **Flow Rate Meter** displays are designed for quick and easy display of critical flow information from pulse or analog output flow meters. Analog and pulse input meters are available with AC, DC, battery, or loop power for convenience of display and monitoring. NEMA 4X front digital panel meters are available with AC, DC, or loop-power for convenient monitoring in safe areas. Explosion-proof and intrinsically safe meters are available with FM, CSA, ATEX, and IECEX approvals for hazardous area flow monitoring and include battery powered displays. Relay, analog, and open collector outputs are available for monitoring and control.

Flow Rate/Totalizers display the flow rate from a flow meter as well as the accumulated total volume of the flow. There are flow rate/totalizers for pulse and analog output flow meters. Analog and pulse input meters are available in NEMA 4X front digital panel meters as well as FM, CSA, ATEX, and IECEX approved explosion-proof and intrinsically safe meters for hazardous areas. Relay, open collector, and analog outputs combine with a variety of power options including AC, DC, battery and loop power to provide versatile flow totalizer products for almost any environment.

ALARM ANNUNCIATORS: 4 or 8-point monitoring **Alarm Annunciators** provide panel indication for alarms from relays, float switches, digital outputs, and more. Bright red LEDs indicate each channel and can be labeled with custom printed messages. All common ISA alarm sequences are available, including those with first out indication. In NEMA 4X, 1/8 DIN panel meter, or explosion-proof packages with worldwide approvals.

SCANNERS: **Scanner** systems provide automatic switching of signals from digital panel meters, controllers, or PLCs. Eight inputs per device, with an unlimited number of devices per system. Process, thermocouple, RTD, AC, and DC inputs. Alarms indicators include LEDs, built-in horn, and relay.

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*"Contact your **Pembina Controls** Sales Representative Today"*