

**PRECISION
DIGITAL**

2011-2012 Short Form Catalog

INSTRUMENTS • CONTROLS • VALVES

ARCO
Engineering, Inc.
SINCE 1954
www.arcoengineering.com

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Precision Digital Corporation since 1974



Digital Indicators & Controllers



Flow



Level



Pressure



Temperature

www.predig.com



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www.predig.com/videos

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170+
PROVU®
SERIES
models to choose from



PD6000 PROVu® Process Meter

Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Dual-scale for level applications - single input
- Signal input conditioning for flow & round horizontal tanks
- 32-point, square root, or exponential linearization
- Multi-pump alternation control
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



PROCESS

PROVu®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos



Select models

predig.com/PD6000

PD6060 PROVu® Dual-Input Process Meter

Quick Overview

Input: Dual 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, and ratio math functions
- Signal input conditioning for flow & round horizontal tanks
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



DUAL-INPUT

PROVu®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos

predig.com/PD6060



PROVu® Series Expansion Modules

4-relay and 4 digital I/O expansion modules available. See page 11

PD6200 ProVu® Analog In Flow Rate/Totalizer

Quick Overview

Input: 0-20 mA, 4-20 mA; ±10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Displays rate and total simultaneously
- Open channel flow with programmable exponent
- Square root extraction
- 32-point linearization with free software
- Total, grand total, or non-resettable grand total
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



FLOW RATE/TOTAL

PROVU®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos



Select models

predig.com/PD6200

PD6300 ProVu® Pulse In Flow Rate/Totalizer

Quick Overview

Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave; Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Displays rate and total simultaneously
- 5, 10, or 24 VDC flowmeter power supply
- Gate function for rate display of slow pulse rates
- K-Factor, internal scaling, or external calibration
- Can convert pulse input to an isolated 4-20 mA output
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



FLOW RATE/TOTAL

PROVU®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos



Select models

predig.com/PD6200



PROVU® Series Serial Communication Adapters

USB, RS-232, and RS-422/485 serial adapters available. See page 11

PD6210 PROVu® Analog In Batch Controller

NEW

Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Start, batch, pause, & stop with front panel buttons
- Display batch total + rate, grand total, batch count or preset
- Single or multi-stage batching with up to 8 relays
- Automatic overflow correction
- Manual control or automatic batching
- Grand total can count up or down
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



BATCH CONTROL

PROVu®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, control, and datalog from a PC. Requires serial communication adapter.

predig.com/PD6210

PD6310 PROVu® Pulse In Batch Controller

NEW

Quick Overview

Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave, Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Start, batch, pause, & stop with front panel buttons
- Display batch total + rate, grand total, batch count or preset
- Single or multi-stage batching with up to 8 relays
- Automatic overflow correction
- Manual control or automatic batching
- Grand total can count up or down
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



BATCH CONTROL

PROVu®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, control, and datalog from a PC. Requires serial communication adapter.

predig.com/PD6210



PROVu® Series Expansion Modules

4-relay and 4 digital I/O expansion modules available. See page 11

PD7000 ProVu® Temperature Meter

Quick Overview

Input: Thermocouple J, K, T, E, R, S, B, N, C; RTD 100 Ω Pt, 10 Ω Cu, 120 Ω Ni, 1,000 Ω Pt; Modbus PV (slave)
Display: Dual-line 6-digit: 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -20 to 65°C

Features

- 1° or 0.1° resolution
- Averages up to 10 RTD sensors
- Automatic cold junction compensation
- Interlock relays (force on)
- Programmable function keys
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



TEMPERATURE

PROVU®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos

predig.com/PD7000

PD6100 ProVu® Strain Gauge Meter

Quick Overview

Input: 0-10, 0-20, ±10, ±20, ±100, ±200 mV; Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Selectable 5, 10, or 24 VDC excitation power supply
- Capture or programmable tare feature
- Ratiometric operation
- Dual-scale feature - single input
- Rounding function 1, 2, 5, 10, 20, 50, or 100
- Auto-zero feature eliminates zero drift
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- RS-232, RS-422/485 serial communications
- SunBright display models



STRAIN GAUGE

PROVU®
SERIES



Free Software Available

MeterView Pro: Configure, monitor, and datalog from a PC. *Requires serial communication adapter.*



Videos

predig.com/PD6100

ProVu® Series Serial Communication Adapters

USB, RS-232, and RS-422/485 serial adapters available. See page 11

PD765 Trident X2 Process & Temp Meter

Quick Overview

Input: Process: 0-20 mA, 4-20 mA;
 ±10 VDC (0-5, 1-5, 0-10 V)
 Temperature: Thermocouple J, K, T, E; RTD 100 Ω Pt
Display: 4-digit, 1.20" (30.5 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC option
Operating Temperature: 0 to 65°C

Features

- Sunlight readable display
- Maximum/minimum display
- Linear or square root with low-flow cutoff
- Transmitter power option
- Modbus® RTU or proprietary ASCII protocol
- Shallow depth case 3.6" behind panel

Options

- 2 relays or 4-20 mA analog output options
- 24 VDC transmitter power supply
- Dual 24 VDC transmitter power supplies
- Serial communications



PROCESS & TEMP



Free Software Available

MeterView: Program, monitor, and datalog up to 100 meters from PC.
 Requires serial communication adapter.

Virtualmeter

Videos

Select models

predig.com/bigdeal

PD765 Trident Process & Temperature Meter

Quick Overview

Input: Process: 0-20 mA, 4-20 mA;
 ±10 VDC (0-5, 1-5, 0-10 V)
 Temperature: Thermocouple J, K, T, E; RTD 100 Ω Pt
Display: 4-digit, 0.56" (14.2 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC option
Operating Temperature: 0 to 65°C

Features

- Sunlight readable display
- Maximum/minimum display
- Linear or square root with low-flow cutoff
- Transmitter power option
- Modbus® RTU or proprietary ASCII protocol
- Shallow depth case 3.6" behind panel

Options

- 2 relays or 4-20 mA analog output options
- 24 VDC transmitter power supply
- Dual 24 VDC transmitter power supplies
- Serial communications



PROCESS & TEMP



Free Software Available

MeterView: Program, monitor, and datalog up to 100 meters from PC.
 Requires serial communication adapter.

Virtualmeter

Videos

All models

predig.com/PD765



Trident Serial Communication Adapters

USB, RS-232, and RS-422/485 serial adapters available. See page 11

PD865 Snooper Modbus Serial Input Meter



Quick Overview

Input: RS-485 Modbus RTU
Display: 6-digit, 0.56" (14.2 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: -40 to 65°C

Options

- 2 form C relays
- Isolated 4-20 mA transmitter output

Features

- Master, slave, or snooper mode
- 2 form A relays
- Linear, square root, or programmable exponent
- RS-485 serial communications
- Proxy polling for up to 8 process variables
- Shallow depth enclosure 3.4" behind panel



Videos

predig.com/snooper

PD603 Sabre P Low-Cost Process Meter



Quick Overview

Input: 0-20 mA, 4-20 mA;
 ±10 VDC (0-5, 1-5, 0-10 V)
Display: 4-digit, 0.56" (14.2 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: 0 to 65°C

Options

- 24 VDC transmitter power supply

Features

- Maximum/minimum display
- Scale without a signal source
- Calibrate with a signal source
- Easy front panel programming
- Shallow depth enclosure 3.6" behind panel



Select models

predig.com/PD603

PD743 Sabre T Low-Cost Temperature Meter



Quick Overview

Input: Thermocouple J, K, T, E;
 RTD 100 Ω platinum
Display: 4-digit, 0.56" (14.2 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: 0 to 65°C

Features

- Maximum/minimum display
- Pre-calibrated for all input types
- Easy front panel programming
- Shallow depth enclosure 3.2" behind panel



Select models

predig.com/PD743

PD644 Javelin D High-Voltage DC Meter

Quick Overview

Input: 0-300 VDC
Display: 4-digit, 0.56" (14.2 mm)
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: 0 to 65°C

Options

- 2 form C relays
- 24 VDC transmitter supply

Features

- Maximum/minimum display
- RS-485 serial communications
- 4-20 mA output
- Modbus® RTU
- Shallow depth enclosure 3.6" behind panel



Free MeterView Software

predig.com/PD644

Free MeterView® Pro Software

Quick Overview

System Requirements: Windows® 2000/XP/Vista/7 (Windows® 32-bit and 64-bit operating systems)

Communications: One meter at a time: USB, RS-232, or RS-422/485

Meter Address: 1 - 247

Reports: Data logging: Save as CSV file format

Configuration: Save as PDC file format or print configuration

Baud Rate: 300 - 19,200 bps

Protocol: Modbus RTU (requires PROVu® firmware version 2.0 or higher)

Features

Communicate from a PC to

- Configure the meter
- Monitor present trends
- Log to as large of a file as needed

Required Adapter

PDA8008 PROVu® USB serial adapter (recommended)

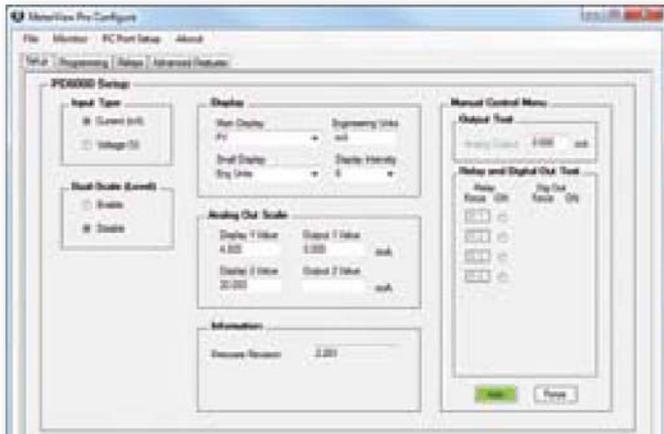
or

PDA1232 PROVu® RS-232 serial adapter

Configuring & Monitoring Software for PROVu® Series



Monitor & Datalog



Setup



Linearization Utility



Relays



Advanced Features



Videos



Free Download

predig.com/mvpro

Free MeterView® Software

Quick Overview

System Requirements: Windows® 2000/XP/Vista/7
(Note: Windows® 32-bit operating systems only)
Communications: USB, RS-232, or RS-422/485 Adapter
Meter Address: 00 - 99
Reports: Data logging: Save as HTML file format
Configuration: Save as PDC file format, export to HTML, or print configuration
Baud Rate: 300 - 19,200 bps
Configuration: One meter at a time

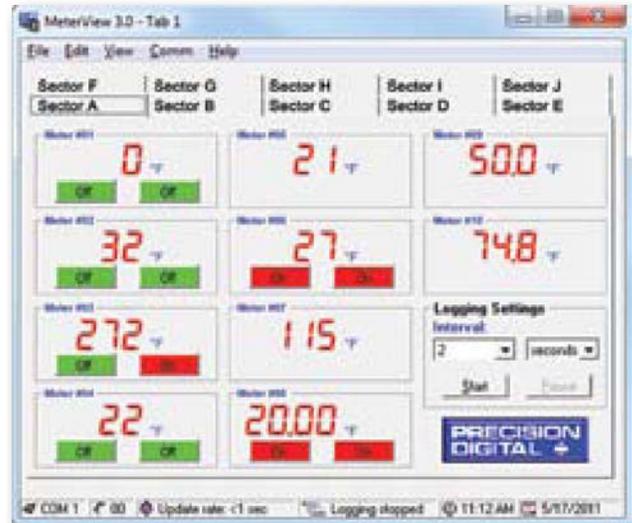
Features

- Monitor up to 100 meters
- Program or read meter settings
- Save meter profiles for cloning
- Use profiles for reporting

Required Adapter

PDA8006 Trident USB serial adapter (recommended)
or
PDA7232 Trident RS-232 serial adapter

Configuring & Monitoring Software for Trident Series



Videos



Free Download

predig.com/meterview

PROVu® Accessories

Expansion Modules

PDA1004: 4-relay expansion module
PDA1044: 4 digital I/O expansion module

Serial Adapters

PDA1232: RS-232 serial adapter
PDA1485: RS-422/485 serial adapter
PDA8008: USB serial adapter

Additional Accessories

PDA1002: DIN-rail mounting kit
PDA1200: Meter copy cable



predig.com

Trident Accessories

Multi-Input Adapter Board

PDA7488: RS-232 & RS-485 isolated

Serial Adapters

PDA7232: RS-232 serial adapter
PDA7422: RS-422/485 serial adapter
PDA8006: USB serial adapter

Additional Accessories

PDA7420: Meter copy cable



predig.com

Serial Communication Converters

RS-232 to RS-422/485

PDA7485-I: converter, isolated
PDA7485-N: converter, non-isolated

USB to RS-232

PDA8232-N: converter, non-isolated

USB to RS-422/485

PDA8485-I: converter, isolated
PDA8485-N: converter, non-isolated



predig.com

NEMA 4 & NEMA 4X Enclosures



Enclosure Selection

Find the perfect enclosure for any 1/8 DIN meter at
predig.com/ESU

PD310 ExSense Temperature Transmitter

Quick Overview

Input: Universal RTD, TC, Ohm, or mV
Display: PV: 5-digit 0.3" (8 mm); Input & Units: 0.2" (5 mm)
Case: Explosion-proof or general purpose housing
Power: Loop-powered (10.5 to 45 VDC)
Operating Temperature: -40 to 75°C

Features

- Program with PC
- Order factory configured ready to install
- Display PV, input type, engineering units & bargraph
- Galvanic isolation prevents ground loops
- Automatic cold junction compensation for TC inputs

Options

- Custom build temperature transmitters/sensors at predig.com/exsensebuilder



EXsense
series



Explosion-proof. Complete system approved.



Free Software Available

ExSenseView: Configure and monitor from a PC



ExSense builder at predig.com/exsensebuilder

predig.com/exsense

PD312 ExSense Temperature Transmitter

Quick Overview

Input: Universal RTD, TC, Ohm, or mV
Display: PV: 5-digit 0.3" (8 mm); Input & Units: 0.2" (5 mm)
Case: Explosion-proof or general purpose housing
Power: Loop-powered (10.5 to 45 VDC)
Operating Temperature: -40 to 75°C

Features

- Program with PC
- Order factory configured ready to install
- Display PV, input type, engineering units & bargraph
- Galvanic isolation prevents ground loops
- Automatic cold junction compensation for TC inputs

Options

- Custom build temperature transmitters/sensors at predig.com/exsensebuilder



EXsense
series



Explosion-proof. Complete product approved.



Free Software Available

ExSenseView: Configure and monitor from a PC



ExSense builder at predig.com/exsensebuilder

predig.com/exsense



Custom Build Temperature Transmitters/Sensors at
www.predig.com/exsensebuilder

PD303 ExSense Temperature Transmitter

Quick Overview

Input: Universal RTD, TC, Ohm, or mV
Case: Explosion-proof or general purpose head
Power: Loop-powered (7.5 to 45 VDC)
Operating Temperature: -40 to 85°C

Features

- Program with PC
- Order factory configured ready to install

Options

- Custom build temperature transmitters/sensors at predig.com/exsensebuilder



EXsense
series



Approvals apply to enclosures only.



ExSense builder at predig.com/exsensebuilder



ExSenseView Software

predig.com/exsense

PD305 ExSense Temperature Transmitter

Quick Overview

Input: Universal RTD, TC, Ohm, or mV
Case: Explosion-proof or general purpose head
Power: Loop-powered (7.5 to 45 VDC)
Operating Temperature: -40 to 85°C

Features

- Program with PC
- Order factory configured ready to install

Options

- Custom build temperature transmitters/sensors at predig.com/exsensebuilder



EXsense
series



Approvals apply to enclosures only.



ExSense builder at predig.com/exsensebuilder



ExSenseView Software

predig.com/exsense

PD301 ExSense Temperature Transmitter

Quick Overview

Input: Universal RTD, TC, Ohm, or mV
Case: Hockey puck style
Power: Loop-powered (7.5 to 45 VDC)
Operating Temperature: -40 to 85°C

Features

- Program with PC
- Order factory configured ready to install
- Mounts into form B connection head



ExSense builder at predig.com/exsensebuilder



ExSenseView Software

predig.com/exsense



Custom Build Temperature Transmitters/Sensors at www.predig.com/exsensebuilder

PD683 & PD688 Loop Leader® Process Meters

Quick Overview

Input: 4-20 mA

Display: 5-digit, 0.6" (15.2 mm)

Case: 1/8 DIN, NEMA 4X/IP65

Power: Loop-powered

Operating Temperature: -30 to 65°C

Features

- 2.0 V drop (5.7 V drop with backlight)
- Loop-powered backlight standard
- Custom engineering units
- Maximum/minimum display
- Linear, square root or programmable exponent
- Bargraph display and trend arrow
- Shallow depth enclosure 3.2" behind panel



PROCESS



Intrinsically safe & non-incendive
PD688 only

quickShip All models

predig.com/loopleader

PD684 & PD689 Loop Leader® Rate/Totalizers

Quick Overview

Input: 4-20 mA

Display: 5-digit, 0.6" (15.2 mm)

Case: 1/8 DIN, NEMA 4X/IP65

Power: Loop-powered

Operating Temperature: -20 to 65°C

Features

- 2.0 V drop (5.7 V drop with backlight)
- Loop-powered backlight standard
- Custom engineering units
- Maximum/minimum display
- Linear, square root or programmable exponent
- Bargraph display and trend arrow
- Programmable alternating rate/total display
- Open collector alarm or pulse output
- Shallow depth enclosure 3.2" behind panel



FLOW RATE/TOTAL



Intrinsically safe & non-incendive
PD689 only

predig.com/loopleader

NEMA 4X Enclosures

There are a variety of plastic NEMA 4X enclosures that will house up to 12 Loop Leader® meters! See page 32

PD662 Survivor NEMA 4X Process Meter

Quick Overview

Input: 4-20 mA
Display: 3½+ digits, 0.6" (15.24 mm)
Case: NEMA 4X high impact plastic
Power: Loop-powered
Operating Temperature: -40 to 75°C
 (-55 to 75°C with heater option)

Features

- 1.7 V drop (3.7 V with backlight)
- Maximum/minimum display
- Easy four-button programming
- Programmable noise filter
- ½" NPT conduit hole
- HART protocol transparent

Options

- Heater
- Loop-powered backlight



Survivor



Videos



Select models

predig.com/survivor

PD686 NEMA 4X Process Meters

Quick Overview

Input: 4-20 mA
Display: 3½ digits, 1.0" (25.4 mm)
Case: NEMA 4X high impact plastic
Power: Loop-powered
Operating Temperature: -40 to 85°C

Options

- ½" conduit hole (rear, top, or none)

Features

- 1.0 V drop
- ½" NPT conduit hole (bottom)
- NEMA 4X IP67 high impact plastic enclosure



Intrinsically safe & non-incendive



Select models

predig.com/PD686

PD685 NEMA 4X Process Meters

Quick Overview

Input: 4-20 mA
Display: 3½ digits, 1.0" (25.4 mm)
Case: NEMA 4X high impact plastic
Power: Loop-powered
Operating Temperature: -40 to 85°C

Options

- ½" conduit hole (rear, top, or none)

Features

- 1.0 V drop
- ½" NPT conduit hole (bottom)
- NEMA 4X IP66/67 high impact plastic enclosure



predig.com/PD685

PD6800 ProtEX-Pro Process Meter

Quick Overview

Input: 4-20 mA

Display: 5-digit upper display 0.7" (17.8 mm);
7 alphanumeric character lower display 0.4" (10.2 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: Loop-powered

Operating Temperature: -40 to 75°C

Features

- SafeTouch® through-glass button programming
- Alphanumeric tag names
- 3.0 V drop (6.0 V drop with backlight)
- Flanges for wall or pipe mounting
- Backlight standard
- Loop-powered
- Password protection
- 32-point, square root, or exponential linearization



PROCESS



Explosion-proof. Complete product approved.

SafeTouch buttons

predig.com/PD6800

PD6820 ProtEX-RTA Analog In Rate/Totalizer

Quick Overview

Input: 4-20 mA

Display: 5-digit rate 0.7" (17.8 mm); 7 alphanumeric character total 0.4" (10.2 mm)

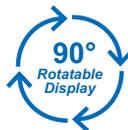
Case: Smooth die-cast aluminum explosion-proof

Power: Loop-powered

Operating Temperature: -40 to 75°C

Features

- SafeTouch® through-glass button programming
- 7-digit totalizer
- 3.0 V drop (6.0 V drop with backlight)
- Flanges for wall or pipe mounting
- Backlight standard
- Loop-powered
- Password protection
- 32-point, square root, or exponential linearization
- Open collector pulse or alarm output



FLOW RATE/TOTAL



Explosion-proof. Complete product approved.

SafeTouch buttons

predig.com/PD6820



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on the PD6800, PD6820, and PD6830.

PD6830 ProtEX-RTP Pulse In Rate/Totalizer

Quick Overview

Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave, opto-isolated
Display: 5-digit rate 0.7" (17.8 mm); 7 alphanumeric character total 0.4" (10.2 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 9-30 VDC, output-loop, or battery
Operating Temperature: -40 to 75°C (-20 to 75°C battery)

Features

- SafeTouch® through-glass button programming
- Mounts directly to flowmeter
- 7-digit totalizer
- Gate function for rate display of slow pulse rates
- K-Factor, scaling, or live input calibration
- Flanges for wall or pipe mounting
- Backlight standard on all models
- Password protection
- 32-point linearization

Options

- Loop output
- 9-30 VDC, output-loop, or battery power



FLOW RATE/TOTAL



Explosion-proof. Complete product approved.



SafeTouch buttons

predig.com/PD6830

PD663 ProtEX-Lite Process Meter

Quick Overview

Input: 4-20 mA
Display: 3½+ digits, 0.6" (15.24 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: Loop-powered
Operating Temperature: -40 to 75°C

Options

- Loop-powered backlight
- Reed switches

Features

- 1.7 V drop (4.7 V drop with backlight)
- Flanges for wall or pipe mounting
- Maximum/minimum display
- HART® protocol transparent
- Programmable noise filter



Explosion-proof. Complete product approved.

predig.com/PD663

PD6870 ProtEX-FarVu Large Display Meter

Quick Overview

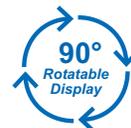
Input: 4-20 mA
Display: 3½ digits, 1.0" (25.4 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: Loop-powered
Operating Temperature: -40 to 75°C

Options

- Loop-powered backlight

Features

- 1.0 V drop (4.0 V drop with backlight)
- Flanges for wall or pipe mounting
- Easy calibration and installation



Explosion-proof. Complete product approved.

predig.com/PD6870

New



The ProtEX-MAX Series has been designed to offer the functions and features of any PROVu®, Trident X2, or Snooper model in a great looking explosion-proof housing. However, the PD8 series is not just an 1/8 DIN meter mounted in an explosion-proof housing. A special bezel and electronics were designed exclusively for the ProtEX-MAX. The bezel and faceplate give the front panel a very finished appearance and house the additional electronics for the PD8. Program and operate the meter without opening the housing using the built-in SafeTouch® through-glass button programming or the serial communication port with free Modbus® protocol.

- Modern, sleek & practical enclosures
- View the display from wide angles
- Can be installed virtually anywhere
- Easy field setup and wiring
- 37 years of design experience
- Models available with PROVu®, Trident X2, or Snooper functionality
- SafeTouch® through-glass button programming
- RS-485 with Modbus protocol standard
- Extensive enclosure approvals
- Flanges for wall or pipe mounting



- PROCESS
- DUAL-INPUT
- FLOW RATE/TOTAL
- BATCH CONTROL
- TEMPERATURE
- STRAIN GAUGE
- PROCESS & TEMP
- MODBUS INPUT

190+ models to choose from

PD8-6000 ProtEX-MAX Process Meter

NEW

Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)

Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: 85-265 VAC or 12/24 VDC option

Operating Temperature: -40 to 65°C

Features

- Dual-scale for level applications - single input
- 32-point, square root, or exponential linearization
- Multi-pump alternation control
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



PROCESS



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8

PD8-6060 ProtEX-MAX Dual-Input Process Meter

3RD QTR 2011

Quick Overview

Input: Dual 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)

Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: 85-265 VAC or 12/24 VDC option

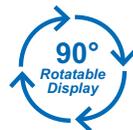
Operating Temperature: -40 to 65°C

Features

- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, and ratio math functions
- Signal input conditioning for flow & round horizontal tanks
- Multi-pump alternation control
- Isolated 24 VDC @ 200 mA transmitter power supply
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



DUAL-INPUT



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on all ProtEX-MAX models.

PD8-6200 ProtEX-MAX Analog Input Rate/Totalizer



Quick Overview

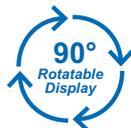
Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Displays rate and total simultaneously
- Open channel flow with programmable exponent
- 32-point linearization with free software
- Square root extraction
- Total, grand total, or non-resettable grand total
- Isolated 24 VDC @ 200 mA transmitter power supply
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



FLOW RATE/TOTAL



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8

PD8-6300 ProtEX-MAX Pulse Input Rate/Totalizer



Quick Overview

Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave; Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Displays rate and total simultaneously
- 5, 10, or 24 VDC flowmeter power supply
- Gate function for rate display of slow pulse rates
- K-Factor, internal scaling, or external calibration
- Can convert pulse input to an isolated 4-20 mA output
- Isolated 24 VDC @ 200 mA transmitter power supply
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications



FLOW RATE/TOTAL



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on all ProtEX-MAX models.

PD8-6210 ProtEX-MAX Analog Input Batch Controller

NEW

Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V); Modbus PV (slave)

Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: 85-265 VAC or 12/24 VDC option

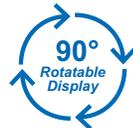
Operating Temperature: -40 to 65°C

Features

- Start, batch, pause, & stop with front buttons
- Display batch total + rate, grand total, batch count or preset
- Single or multi-stage batching with up to 8 relays
- Automatic overflow correction
- Manual control or automatic batching
- Grand total can count up or down
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



BATCH CONTROL



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8

PD8-6310 ProtEX-MAX Pulse Input Batch Controller

NEW

Quick Overview

Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave, Modbus PV (slave)

Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: 85-265 VAC or 12/24 VDC option

Operating Temperature: -40 to 65°C

Features

- Start, batch, pause, & stop with front buttons
- Display batch total + rate, grand total, batch count or preset
- Single or multi-stage batching with up to 8 relays
- Automatic overflow correction
- Manual control or automatic batching
- Grand total can count up or down
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



BATCH CONTROL



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on all ProtEX-MAX models.

PD8-7000 ProtEX-MAX Temperature Meter

NEW

Quick Overview

Input: Thermocouple J, K, T, E, R, S, B, N, C; RTD 100 Ω Pt, 10 Ω Cu, 120 Ω Ni, 1,000 Ω Pt; Modbus PV (slave)
Display: Dual-line 6-digit: 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -20 to 65°C

Features

- 1° or 0.1° resolution
- Averages up to 10 RTD sensors
- Automatic cold junction compensation
- Interlock relays (force on)
- Programmable function keys
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- External 4-relay and digital I/O expansion modules
- SunBright display models



TEMPERATURE



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8

PD8-6100 ProtEX-MAX Strain Gauge Meter

3RD QTR 2011

Quick Overview

Input: 0-10, 0-20, ±10, ±20, ±100, ±200 mV
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Selectable 5, 10, or 24 VDC excitation power supply
- Capture or programmable tare feature
- Ratiometric operation
- Dual-scale feature - single input
- Rounding function 1, 2, 5, 10, 20, 50, or 100
- Auto-zero feature eliminates zero drift
- Isolated 24 VDC @ 200 mA transmitter power supply
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications



STRAIN GAUGE



Approvals apply to enclosure only.



Free MeterView Pro Software



SafeTouch buttons

predig.com/PD8



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on all ProtEX-MAX models.

PD8-765 X2 ProtEX-MAX Process & Temp Meter

NEW

Quick Overview

Input: Process: 0-20 mA, 4-20 mA;
 ±10 VDC (0-5, 1-5, 0-10 V)
 Temperature: Thermocouple J, K, T, E; RTD 100 Ω Pt
Display: 4-digit, 1.20" (30.5 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12-36 VDC option
Operating Temperature: 0 to 65°C

Features

- Sunlight readable display
- Maximum/minimum display
- Linear or square root with low-flow cutoff
- Transmitter power option
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications
- Flanges for wall or pipe mounting

Options

- 2 relays or 4-20 mA analog output options
- 24 VDC transmitter power supply
- Dual 24 VDC transmitter power supplies



PROCESS & TEMP



Approvals apply to enclosure only.



Free MeterView Software



SafeTouch buttons

predig.com/PD8

PD8-865 ProtEX-MAX Modbus Serial Input Meter

NEW

Quick Overview

Input: RS-485 Modbus RTU
Display: 6-digit, 0.56" (14.2 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12-36 VDC option
Operating Temperature: -40 to 65°C

Features

- Master, slave, or snooter mode
- 2 form A relays
- Linear, square root, or programmable exponent
- RS-485 serial communications
- Proxy polling for up to 8 process variables
- SafeTouch® through-glass button programming
- Modbus® RS-485 serial communications
- Flanges for wall or pipe mounting

Options

- 2 form C relays
- Isolated 4-20 mA transmitter output



MODBUS INPUT



Approvals apply to enclosure only.



SafeTouch buttons

predig.com/PD8



SafeTouch® Through-Glass Button Programming

Eliminates the need to remove the enclosure cover to program the meter. Available on all ProtEX-MAX models.

PD940 & PD941 4-Channel Controllers

Quick Overview

Input: Analog: four 4-20 mA inputs;
Pulse: Four 100 mVp-p to 15 Vp-p, 1 Hz to 10 kHz
Display: 4.75" x 3.50" (121 mm x 89 mm), 6-digit
Case: NEMA 1, powder-coated steel
Power: 90-264 VAC or 8-30 VDC
Mounting: Wall (PD940), Panel (PD941)
Operating Temperature: 0 to 50°C

Features

- Sunlight readable display
- Four pulse and digital inputs
- Nine 10 A relays
- Process/rate & total display
- 32-point linearization
- RS-232 Modbus RTU
- Direct Modbus PV inputs



Videos



Consolidator Software

predig.com/PD980

PD980 & PD981 8-Channel Controllers

Quick Overview

Input: Analog: eight 4-20 mA inputs;
Pulse: Four 100 mVp-p to 15 Vp-p, 1 Hz to 10 kHz
Display: 4.75" x 3.50" (121 mm x 89 mm), 6-digit
Case: NEMA 1, powder-coated steel
Power: 90-264 VAC or 8-30 VDC
Mounting: Wall (PD940), Panel (PD941)
Operating Temperature: 0 to 50°C

Features

- Sunlight readable display
- Four pulse and digital inputs
- Nine 10 A relays
- Process/rate & total display
- 32-point linearization
- RS-232 Modbus RTU
- Direct Modbus PV inputs



Videos



Consolidator Software

predig.com/PD980

PDS941 & PDS981 Wireless Systems

Quick Overview

Input: PDS941: four 4-20 mA;
PDS981: eight 4-20 mA
Case: NEMA 4X
Power: 90-264 VAC or 8-30 VDC
Operating Temperature: 0 to 50°C

Options

- Wireless radio modem
- Wireless retransmission outputs
- Serial communications

Features

- Allows remote monitoring & alarming
- Reduces installation costs vs hard-wired
- Minimizes manual reading costs
- Monitors up to eight points
- Communicates up to 1200 feet indoors, 5 miles outdoors
- Monitors & data logs at remote office location
- Makes multiple-use of data



Videos



Consolidator Software

predig.com/wireless



Fluidwell Configurator



- Customize your Fluidwell
- Get complete part number
- Get pricing

predig.com/configurator

Overview

Quick Select Guide

Application Manual

Flow Rate Indicator



Features

- Analog or pulse input
- On-screen engineering units
- Pie graph indicator
- Bi-color backlight
- Process all types of flowmeter signals
- 5½ digits, 1" (25.4 mm) high display

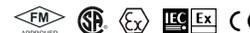


Loop-Powered Indicator



Features

- Loop-powered indicators
- On-screen engineering units
- Pie graph indicator
- Bi-color backlight
- 5½ digits, 1" (25.4 mm) high display



Rate/Totalizers



Features

- Analog or pulse input
- Multi-point linearization
- 7-digit flow rate display
- 7-digit total display
- 11-digit non-resettable total
- Bi-directional measurement
- High & low alarms
- Analog & pulse outputs

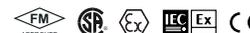


Flow Controllers



Features

- Analog or pulse input
- Analog control output
- 2 alarm outputs for low & high flow
- Bumpless transfer to auto mode
- Green LED backlight
- Serial Modbus communications
- Safety input mode to place controller into predefined position



Batch Controllers



Features

- Analog or pulse input
- 1 or 2 stage batch control
- Start, stop, & pause buttons
- Overrun correction
- Count up or count down
- Flow rate, preset value, & total display
- 11-digit non-resettable total

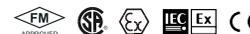


Temp, Level, Pressure Monitors



Features

- Analog or RTD input
- Multi-point linearization
- Displays volume, height & %
- Dual-pressure input
- Analog output
- High and low alarms



Flow & Energy Computers



Features

- Analog or pulse input
- Temperature compensation for liquids
- Temperature & pressure compensation for gas
- Ratio calculation & monitoring
- Fuel consumption calculation
- 11-digit non-resettable total



Temp, Level, Pressure Indicators



Features

- Analog or RTD input
- On-screen engineering units
- Pie graph indicator
- Bi-color backlight
- Displays volume, height & %
- 5½ digits, 1" (25.4 mm) high display



PD154 Vigilante® II 4-Point Alarm Annunciator**Quick Overview**

Input: Switch, transistor, logic level
Display: Four red LED indicators
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: -40 to 65°C

Features

- 8 field selectable sequences
- 4-point monitoring
- All common ISA sequences including first-out
- Built-in 85 dB horn
- 2 SPDT relays for alarm activated devices
- Silence, acknowledge, and reset functions
- Multiple-unit first-out indication



Videos



Select models

predig.com/vigilante**PD158 Vigilante® II 8-Point Alarm Annunciator****Quick Overview**

Input: Switch, transistor, logic level
Display: Eight red LED indicators
Case: 1/8 DIN, NEMA 4X/IP65
Power: 85-265 VAC or 12-36 VDC
Operating Temperature: -40 to 65°C

Features

- 8 field selectable sequences
- 8-point monitoring
- All common ISA sequences including first-out
- Built-in 85 dB horn
- 2 SPDT relays for alarm activated devices
- Silence, acknowledge, and reset functions
- Multiple-unit first-out indication



Videos



Select models

predig.com/vigilante**PD138 Minimux® II Temp & Process Scanner****Quick Overview**

Input: TC, RTD, Process, AC, DC
Display: Eight LED indicators
Case: 1/8 DIN, NEMA 4X/IP65
Power: 115 VAC, 230 VAC, 12-24 VDC
Operating Temperature: -40 to 65°C

Features

- 8 inputs per unit
- Unlimited number of units per system
- Adjustable dwell time for each channel
- Independent alarm input for each channel
- First-out alarm indication
- Built-in 85 dB horn

**Options**

- Current loop resistor



Videos

predig.com/PD138**PDS178 & PDS178X2 Temp Scanning System****Quick Overview**

Input: J, K, E, T thermocouples, 100 Ω platinum RTD
Display: 4-digit + 8 LED indicators
Case: NEMA 4X plastic
Power: 115 VAC
Operating Temperature: 0 to 65°C

Features

- 8-channel temperature scanner
- Temperature indicator with 2 relays
- NEMA 4X plastic enclosure
- 8 inputs per unit
- Built-in 85 dB horn
- First-out indication
- Sunlight readable indication

**Options**

- PDS178: 0.56" (14.2 mm) display
- PDS178X2: 1.2" (30.5 mm) display



Videos

predig.com/PDS178

PD650 Large Display (2.3") Process Meter



Actual Digit Size



Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V)
Display: 2.3" (57.3 mm), 4½ digits
Case: NEMA 4X aluminum
Power: 115/230 VAC or 22-28 VDC
Operating Temperature: -20 to 65°C

Features

- Programmable exponent for weirs & flumes
- 6-digit display for total
- Two 24 VDC transmitter power supplies

Options

- 200 mA transmitter power supply
- 2 or 4 relays & 4-20 mA output

predig.com/PD650

PD655 Large Display (1.0") Process Meter

Quick Overview

Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V)
Display: 1.0" (25.4 mm), 4½ digits
Case: NEMA 4X high impact plastic
Power: 115/230 VAC or 22-28 VDC
Operating Temperature: -20 to 65°C

Features

- Programmable exponent for weirs & flumes
- 6-digit display for total
- Two 24 VDC transmitter power supplies
- Pump alternation

Options

- 200 mA transmitter power supply
- 2 or 4 relays & 4-20 mA output



Actual Digit Size



predig.com/PD655



Actual Digit Size

Trident X2 Large Display Process & Temperature Meter

An astounding 1.2" (30.5 mm) high display makes it the biggest 1/8 DIN process meter display on the market. See page 8

PD540 Series Nova Digital PID Controllers

NOVA

Quick Overview

Input: Universal process & temperature
Display: Dual, 4-digit
Case: 1/16, 3/16, 1/8, and 1/4 DIN
Power: 100-240 VAC
Operating Temperature: 10 to 50°C

Options

- Digital inputs
- Heating and cooling
- RS-485 serial communications

Features

- Auto-tuning PID
- Easy & quick set point changes
- Relay & analog outputs standard
- High accuracy
- IP55 & IP65 fronts
- Free operating & data logging software



Virtualmeter



Videos



Quick Ship Select models

predig.com/PD540

PD550 Series Nova Ramp & Soak Controllers

NOVA

Quick Overview

Input: Universal process & temperature
Display: Dual, 4-digit
Case: 1/16, 3/16, 1/8, and 1/4 DIN
Power: 100-240 VAC
Operating Temperature: 10 to 50°C

Options

- Digital inputs or digital outputs
- RS-485 serial communications

Features

- Two 15-segment ramp & soak programs
- Relay & analog outputs standard
- High accuracy
- IP55 & IP65 fronts
- Free operating & data logging software



Virtualmeter



Videos

predig.com/PD550

PD560 Series Nova Digital Meters

NOVA

Quick Overview

Input: Universal process & temperature
Display: Dual, 4-digit
Case: 1/8 and 1/4 DIN
Power: 100-240 VAC
Operating Temperature: 10 to 50°C

Options

- Digital inputs
- RS-485 serial communications

Features

- Relay & analog outputs standard
- High accuracy
- IP55 & IP65 fronts
- Free operating & data logging software



Virtualmeter



Videos

predig.com/PD560

PD570 Series Nova Limit Controllers

NOVA

Quick Overview

Input: Universal process & temperature
Display: Dual, 4-digit
Case: 1/16 and 1/4 DIN
Power: 100-240 VAC
Operating Temperature: 10 to 50°C

Options

- RS-485 serial communications

Features

- Latching limit relay
- Relay & analog outputs standard
- High accuracy
- IP55 & IP65 fronts
- Free operating & data logging software



Virtualmeter



Videos

predig.com/PD570

PD9500 Precision Calibrator

Quick Overview

Accuracy: 0.0025% of Rdg. (voltage)
Source/read: Thermocouples (13), RTD (9), voltage, current, & pressure (read only)
Interface: Direct keyboard entry, dual displays
Power: 115 or 230 VAC

Features

- Initial calibration accuracy (6 months) to 0.0025% of rdg. (voltage)
- Custom RTD and SPRT profiles
- Nine setpoints for each output range and type
- Beryllium-copper binding posts reduce thermal EMFs
- RS-232 and IEEE-488 remote control
- Compatible with Fluke Met/Cal® software
- Isolated measurement channel
- Includes NIST traceable certificate with calibration data



predig.com/PD9500

PD200 Series Digital Pressure Gauges

200 SERIES

Quick Overview

Input: Vacuum to 19,999 psi & compound
Display: 4½ digits or 5-digit
Power: Battery, loop-powered, or 12-36 VDC
Mounting: Stem

Features

- General purpose (PD202)
- Industrial type (PD213, PD214, PD224)
- Test gauges (PD233, PD243, PD253)
- Direct pressure input
- High accuracy up to 0.05% FS
- Numeric and bargraph display
- Engineering units

Options

- Backlight
- 2 relays
- 4-20 mA output



predig.com/DPG

PDA1500 High VAC/VDC to Logic Level Converter



Quick Overview

Modes: Straight conversion or series break
Mounting: DIN Rail
Number of Channels: 4
Inputs: 85 to 265 VAC/VDC
Outputs: TTL compatible logic (+5 V)
Power: 24 VDC

Features

- Multi-unit (cascade) series break configuration
- Input to output can be inverted
- Interfaces to Vigilante® II alarm annunciators or PROVU® meters
- High electro-optical isolation, input to output



predig.com

	PROCESS & TEMPERATURE		PROCESS METERS		TEMPERATURE METERS	
						
Model	PD765 Trident	PD765 Trident X2	PD603 Sabre P	PD6000 ProVu®	PD743 Sabre T	PD7000 ProVu®
Input Field Selectable	0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) J, K, T, E TC 100 Ω Pt RTD	0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) J, K, T, E TC 100 Ω Pt RTD	0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V)	0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) Modbus PV (slave)	J, K, T, E TC 100 Ω Pt RTD	J, K, T, E, R, S, B, N, C TC 100 or 1000 Ω Pt RTD 10 Ω Cu RTD 120 Ω Ni RTD Modbus PV (slave)
Display Lines Digit Height Process/Rate Total Toggle/Dual R+T	4-digit 1 line 0.56" (14.2 mm) 9,999 N/A N/A	4-digit 1 line 1.20" (30.5 mm) 9,999 N/A N/A	4-digit 1 line 0.56" (14.2 mm) 9,999 N/A N/A	6-digit 2 lines 0.60", 0.46" 999,999 N/A N/A	4-digit 1 line 0.56" (14.2 mm) 9,999 N/A N/A	6-digit 2 lines 0.60", 0.46" 9,999.9 N/A N/A
Display Intensity	Adjustable	Adjustable	Fixed	Adjustable	Fixed	Adjustable
Programming Method	Front Panel Meter Copy PC with MeterView	Front Panel Meter Copy PC with MeterView	Front Panel	Front Panel Meter Copy PC with MeterView® Pro	Front Panel	Front Panel Meter Copy PC with MeterView® Pro
Signal Input Conditioning	Square Root	Square Root	N/A	Square Root Round Horizontal Tank Programmable Exp. 32-point	N/A	N/A
Max/Min Display	Toggle, 10 sec, momentary, continuous	Toggle, 10 sec, momentary, continuous	Toggle, 10 sec, momentary, continuous	Dual-Line or Toggle	Toggle, 10 sec, momentary, continuous	Dual-Line or Toggle
Transmitter Power	Dual 24 VDC @ 200 mA & 40 mA (option)	Dual 24 VDC @ 200 mA & 40 mA (option)	24 VDC @ 200 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	N/A	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)
Relays/Outputs	2 Form C 3 A	2 Form C 3 A	N/A	2 or 4 Form C 3 A + 4 external Form A	N/A	2 or 4 Form C 3 A + 4 external Form A
Relay Operation	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or PC	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or PC	N/A	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or I/O Sampling Output interlock using digital input	N/A	High or low alarm 100% deadband Auto & manual reset Latch or non-latch On & off time delay Fail-Safe or normal Front panel ACK or I/O Output interlock using digital input
4-20 mA Output	Process Variable	Process Variable	N/A	PV, Max/Min, Setpoint, Manual	N/A	PV, Max/Min, Setpoint, Manual
Serial Comm.	USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	N/A	USB, RS-232, RS-422/485	N/A	USB, RS-232, RS-422/485
Expandable	N/A	N/A	N/A	Relays, I/O, Comm.	N/A	Relays, I/O, Comm.
Programmable I/O	None	None	None	8 Inputs / 8 Outputs	None	8 Inputs / 8 Outputs
Protocol	Proprietary ASCII or Modbus RTU	Proprietary ASCII or Modbus RTU	N/A	Modbus RTU	N/A	Modbus RTU
Software	MeterView®, LabVIEW	MeterView®, LabVIEW	N/A	MeterView® Pro	N/A	MeterView® Pro
Power Options	Universal 85-265 VAC or 12-36 VDC	Universal 85-265 VAC or 12-36 VDC	Universal 85-265 VAC or 12-36 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12-36 VDC	Universal 85-265 VAC or 12/24 VDC
Operating Temperature	0 to 65°C	0 to 65°C	0 to 65°C	-40 to 65°C	0 to 65°C	-20 to 65°C
Approvals	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL
Standard Warranty	3 years parts & labor	3 years parts & labor	1 year parts & labor	3 years parts & labor	1 year parts & labor	3 years parts & labor

Quick Select Guide

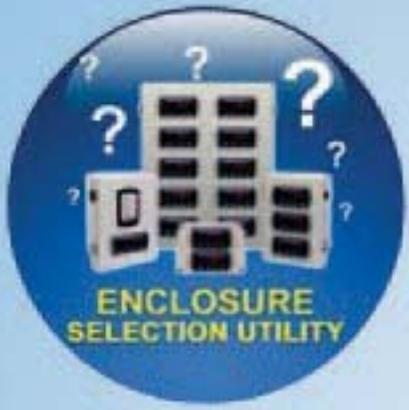
FLOW RATE/TOTALIZERS		BATCH CONTROLLERS		DUAL-INPUT	STRAIN GAUGE	SERIAL DATA
PD6200 ProVu®	PD6300 ProVu®	PD6210 ProVu®	PD6310 ProVu®	PD6060 ProVu®	PD6100 ProVu®	PD865 Snooper
0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) Modbus PV (slave)	Pulse or square wave Open collector or switch 0-5 V, 0-12 V @ 30 kHz Modbus PV (slave)	0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) Modbus PV (slave)	Pulse or square wave Open collector or switch 0-5 V, 0-12 V @ 30 kHz Modbus PV (slave)	Dual 0-20 mA 4-20 mA ±10 VDC (0-5, 1-5, 0-10 V) Modbus PV (slave)	0-10 mV 0-20 mV ±10 mV, ±20 mV ±100 mV ±200 mV Modbus PV (slave)	Modbus RTU
6-digit 2 lines 0.60", 0.46" 999,999 999,999,999† Dual	6-digit 2 lines 0.60", 0.46" 999,999 999,999,999† Dual	6-digit 2 lines 0.60", 0.46" 999,999 999,999,999† Dual	6-digit 2 lines 0.60", 0.46" 999,999 999,999,999† Dual	6-digit 2 lines 0.60", 0.46" 999,999 N/A N/A	6-digit 2 lines 0.60", 0.46" 999,999 N/A N/A	6-digit 1 line 0.56" (14.2 mm) 999,999 N/A N/A
Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Front Panel Meter Copy PC with MeterView® Pro	Front Panel Meter Copy PC with MeterView® Pro	Front Panel Meter Copy PC with MeterView® Pro	Front Panel Meter Copy PC with MeterView® Pro	Front Panel Meter Copy PC with MeterView® Pro	Front Panel Meter Copy PC with MeterView® Pro	Front Panel PC with Modbus
Square Root Programmable Exp. 32-point	32-point	Square Root Programmable Exp. 32-point	32-point	12 Math Functions	32-point	Square Root Programmable Exp. 16-point
Dual-Line or Toggle	Dual-Line or Toggle	Dual-Line or Toggle	Dual-Line or Toggle	Dual-Line or Toggle	Dual-Line or Toggle	Toggle, 10 sec, momentary, continuous
24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA or 5/10 VDC @ 50 mA (standard), 24 VDC @ 40 mA (option)	24 VDC @ 200 mA (option)
2 or 4 Form C 3 A + 4 external Form A	2 or 4 Form C 3 A + 4 external Form A	2 or 4 Form C 3 A + 4 external Form A	2 or 4 Form C 3 A + 4 external Form A	2 or 4 Form C 3 A + 4 external Form A	2 or 4 Form C 3 A + 4 external Form A	2 Form A, 2 Form C
High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or I/O Sampling Output interlock using digital input	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or I/O Sampling Output interlock using digital input	Batch control Preclose for multi-stage control High or low rate or grand total alarms 100% deadband On & off time delay Fail-Safe or normal Sampling Output interlock using digital input	Batch control Preclose for multi-stage control High or low rate or grand total alarms 100% deadband On & off time delay Fail-Safe or normal Sampling Output interlock using digital input	(High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or I/O Output interlock using digital input)*	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or I/O Sampling Output interlock using digital input	High or low alarm 100% deadband Auto & manual reset Latch or non-latch Pump alternation On & off time delay Fail-Safe or normal Front panel ACK or PC
Rate, Total, Grand Total Max, Min, Setpoint, Manual	Rate, Total, Max, Min, Setpoint, Manual	Rate, Total, Grand Total Max, Min, Setpoint, Manual	Rate, Total, Max, Min, Setpoint, Manual	(PV, Max/Min, Setpoint, Manual)*	PV, Max/Min, Setpoint, Manual	Process Variable
USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	USB, RS-232, RS-422/485	RS-485
Relays, I/O, Comm.	Relays, I/O, Comm.	Relays, I/O, Comm.	Relays, I/O, Comm.	Relays, I/O, Comm.	Relays, I/O, Comm.	N/A
8 Inputs / 8 Outputs	8 Inputs / 8 Outputs	8 Inputs / 8 Outputs	8 Inputs / 8 Outputs	8 Inputs / 8 Outputs	8 Inputs / 8 Outputs	N/A
Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU
MeterView® Pro	MeterView® Pro	MeterView® Pro	MeterView® Pro	MeterView® Pro	MeterView® Pro	Any Modbus RTU compatible
Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12/24 VDC	Universal 85-265 VAC or 12-36 VDC
-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 65°C	-40 to 65°C	0 to 65°C
CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	CE, UL & C-UL	UL & C-UL	UL & C-UL
3 years parts & labor	3 years parts & labor	3 years parts & labor	3 years parts & labor	3 years parts & labor	3 years parts & labor	3 years parts & labor

Quick Select Guide

† With overflow * Can be assigned to any channel

Need Help Selecting an Enclosure?

www.predig.com/esu



PDA2322



PDA2407



PDA2446



PDA2501



PDA2601



PDA2703



PDA2801



PDA2901

PDA2300 Plastic Economical

Model	# of Meters	Type				
		A	B	C	D	E
PDA2301*	1			•		
PDA2302*	2	•	•	•		•
PDA2303*	3	•	•	•		•
PDA2304*	4	•	•	•		•
PDA2305*	5	•	•	•		•
PDA2306*	6	•	•	•		•
PDA2307	7	•	•	•		•
PDA2308	8	•	•	•		•
PDA2309	9	•	•	•		•
PDA2310	10	•	•	•		•
PDA2312	2	•	•	•		•
PDA2322	2	•	•	•	■	•

• Available ■ 1 Required

PDA2500 Plastic Rugged

Model	# of Meters	Type				
		A	B	C	D	E
PDA2501*	1		•	•		
PDA2502*	2		•	•		
PDA2503*	3		•	•		
PDA2504*	4	•	•	•		•
PDA2505*	5	•	•	•		•
PDA2506*	6	•	•	•		•
PDA2507	7	•	•	•		•
PDA2508	8	•	•	•		•
PDA2509	9	•	•	•		•
PDA2510	10	•	•	•		•
PDA2512	2	•	•	•		•
PDA2522	2		•		■	

• Available ■ 1 Required

PDA2700 Steel

Model	# of Meters	Type				
		A	B	C	D	E
PDA2701*	1			•		
PDA2702*	2			•		
PDA2703*	3			•		
PDA2704*	4	•	•	•		•
PDA2704-1	1	•	•	•		•
PDA2704-2	2	•	•	•		•
PDA2705*	5	•	•	•		•
PDA2706*	6	•	•	•		•
PDA2713	4		•	•	■	•
PDA2722	2			•	■	

• Available ■ 1 Required

PDA2400 Plastic

Model	# of Meters	Type				
		A	B	C	D	E
PDA2407	1	•	•	•	•	•
PDA2408	2		•			
PDA2409	3		•			
PDA2410	4		•			
PDA2411	2	•	•	•	•	•
PDA2412	3	•				
PDA2414	2	•	•	•	■	•
PDA2415	4	•				

• Available ■ 1 Required

PDA2600 Stainless Steel

Model	# of Meters	Type				
		A	B	C	D	E
PDA2601*	1			•		
PDA2602*	2			•		
PDA2603*	3			•		
PDA2604*	4	•	•	•		•
PDA2605*	5	•	•	•		•
PDA2606*	6	•	•	•		•
PDA2622	2			•	■	

• Available ■ 1 Required

PDA2800 Plastic Low-Cost

Model	# of Meters	Type				
		A	B	C	D	E
PDA2801	1			•		
PDA2811	1	•	•	•		•
PDA2812	2	•	•	•		•
PDA2821	2	•		•	■	•

• Available ■ 1 Required

PDA2900 Plastic

Model	# of Meters	Meter Types		Size
		Meter Types		
PDA2901	1	Consolidator		Small
PDA2904	1	Consolidator		Large

PDA2440 Explosion-Proof

Model	# of Meters	Type				
		A	B	C	D	E
PDA2444	1	•	•	•	•	•
PDA2445	2		•			
PDA2446	2	•		•	•	•
PDA2448	1	Fluidwell				

Meter Types

Type	Meters
A	PD690 and PD691
B	PD542, PD543, and PD562
C	PD603, PD644, PD683, PD684, PD688, PD689, PD743, PD765, and PD865
D	PD138, PD154, and PD158
E	PD6000, PD6060, PD6100, PD6200, PD6210, PD6300, PD6310, and PD7000

* Vertical panel cutouts available for Type D meters. To order add -V at the end of part number (e.g. PDA2501-V).

Tank Level Monitoring with PD650



PD765 Tridents Measuring Temperature



Local Display for Overhead Transmitters



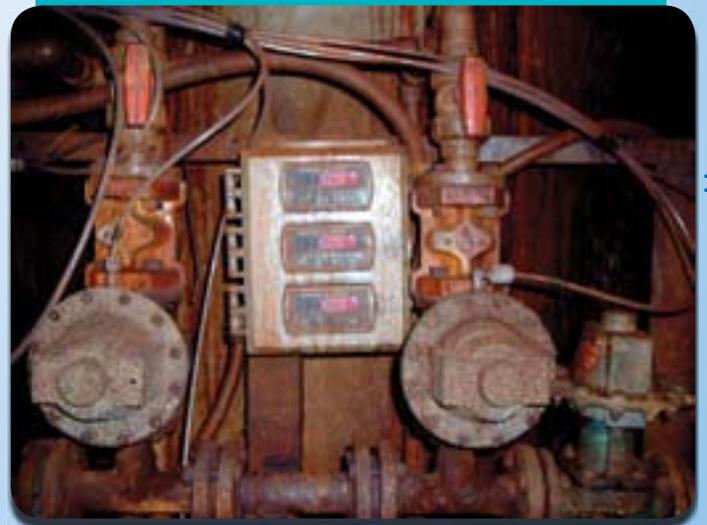
Visual Flow Indication with ConsoliDator



PD6000 ProVu Displaying Level



PD765 Tridents in a Steel Mill



Quick Select Guide

Application Photos

PD6000 Monitoring Oil Level



PD6000 at an Asphalt Plant



PD688 Loop Leader in Div 2 Panel



Trident X2 Measuring Tank Level



PD9500 Calibrator under Computer Control



Nova Controllers & Nova Software



Quick Select Guide

Application Photos

Two Tridents in a PDA2502 Enclosure



Alarm Monitoring with ConsoliDator



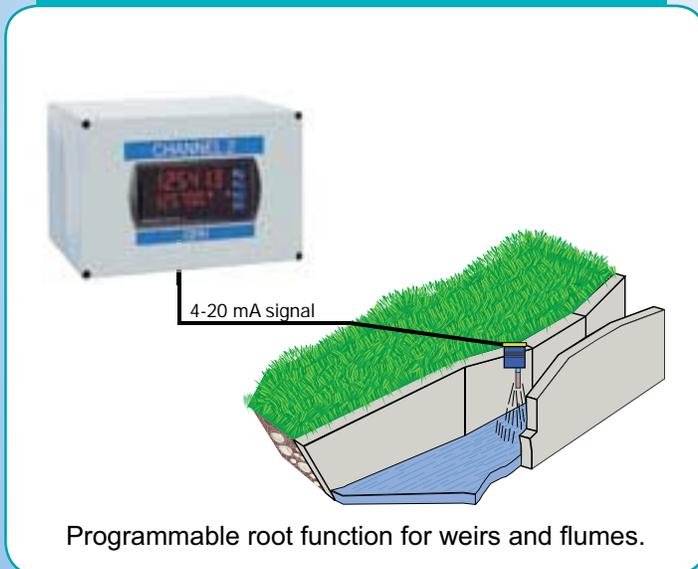
Lube Oil Flow Monitoring with Fluidwell



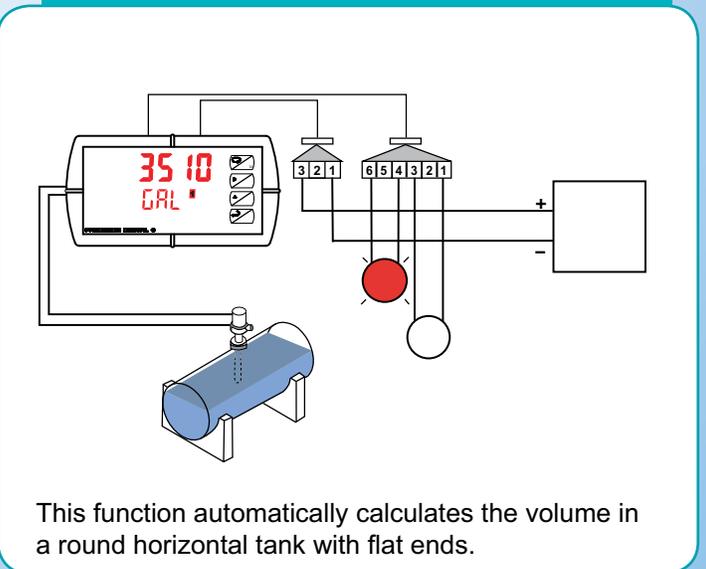
Bearing Temperature Monitoring on a Ferry



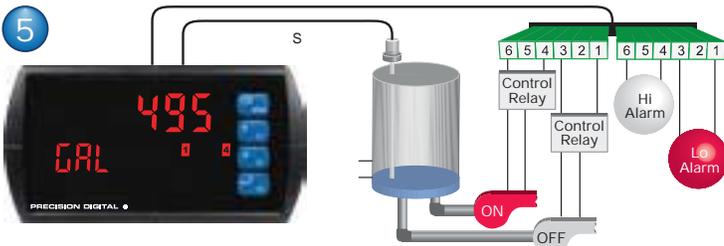
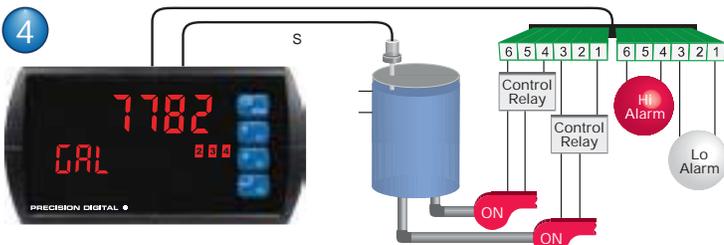
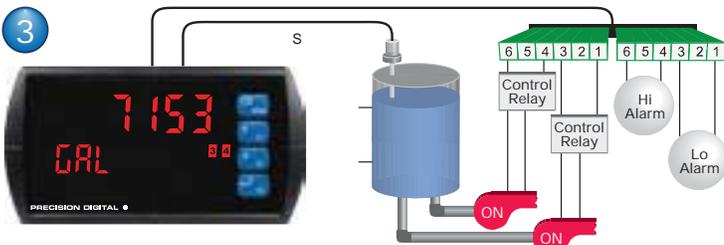
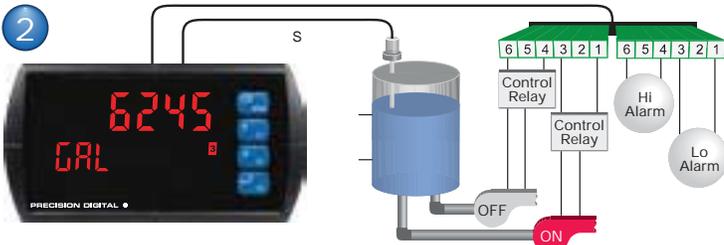
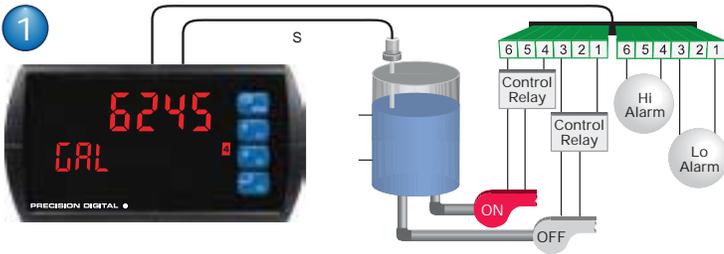
Open Channel Flow



Round Horizontal Tank



Pump Alternation Control with PROVu®



Batch Control with PROVu®



Precision Digital Corporation since 1974

LMSFC_F 06/11