

2013 catalog

digital indicators & controllers



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Read tank level in
feet & inches

PD6801
ProtEX-F&I Feet & Inches Meter



ProtEX
F&I



Explosion-proof. Complete product approved.

see page 19

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new products

COMING IN 2013



PD6080
ProVu® Super Snooper
Modbus Input Scanner



PD6081
ProVu® Feet & Inches Super
Snooper Modbus Input Scanner



PD6262
ProVu® Dual Analog Input
Flow Rate/Totalizer



PD6363
ProVu® Dual Pulse Input
Flow Rate/Totalizer



PD6400 / PD6500
ProVu® High Voltage & Current
Meters



PD6801
ProtEX-F&I Ex-Proof
Feet & Inches Meter



PD6830X
ProtEX Super Snooper
Modbus Input Scanner



PD8-6080
ProtEX-MAX Super Snooper
Modbus Input Scanner



PD8-6081
ProtEX-MAX Feet & Inches Super
Snooper Modbus In Scanner



PD8-6262
ProtEX-MAX Dual Analog In
Flow Rate/Totalizer



PD8-6363
ProtEX-MAX Dual Pulse In
Flow Rate/Totalizer



PDA1011
Dual 4-20 mA Output
Expansion Module

PD6000

ProVu® Process Meter

PROCESS

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
- On-board digital input
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Free Software Available

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



PROVU®
SERIES

UL
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CE

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-485 serial communications
- SunBright display models

PD6060

ProVu® Dual-Input Process Meter

DUAL-INPUT
PROCESS



PROVU®
SERIES

UL
LISTED

CE

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
- On-board digital input
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Free Software Available

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

Options

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

PD6080

ProVu® Super Snooper Modbus Scanner

MODBUS SCANNER

Quick Overview

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

- Master, slave, or snooper mode
- Scan up to 16 PVs
- 4-20 mA analog output option (up to three)
- On-board digital input
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Free Software Available

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



PROVU®
SERIES



Options

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

PD6081

ProVu® Feet & Inches Super Snooper Modbus Scanner

FEET & INCHES
MODBUS SCANNER



PROVU®
SERIES



Quick Overview

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

Features

- Master, slave, or snooper mode
- Scan multiple PVs
- 4-20 mA analog output option (up to three)
- On-board digital input
- Programmable function keys
- Isolated 24 VDC @ 200 mA transmitter power supply
- Modbus® RTU communication protocol

Free Software Available

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

Options

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

PD6100

PROVu® Strain Gauge Meter

STRAIN GAUGE

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
- On-board digital input
- Modbus® RTU communication protocol

Free Software Available

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



PROVu®
SERIES

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CE

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-485 serial communications
- SunBright display models

PD6200

PROVu® Analog Input Flow Rate/Totalizer

FLOW RATE/TOTAL



PROVu®
SERIES

UL
LISTED

CE

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
- Count up or down, total & grand total
- 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
- On-board digital input
- Modbus® RTU communication protocol

Free Software Available

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

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-485 serial communications
- SunBright display models

PD6210

ProVu® Analog Input Batch Controller

BATCH CONTROL

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
- Count up or down, total & grand total
- On-board digital input
- Modbus® RTU communication protocol

Free Software Available

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



PROVU®
SERIES



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-485 serial communications
- SunBright display models

PD6262

ProVu® Analog Dual-Input Rate/Totalizer

DUAL-INPUT
RATE / TOTALIZER



PROVU®
SERIES



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

- Display rate, total, or grand total for either channel, or math
- Math functions based on rate, total, or grand total
- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, ratio, and concentration math functions
- Count up or down, total & grand total
- 5, 10 or 24 VDC isolated flowmeter power supply
- On-board digital input
- Modbus® RTU communication protocol

Free Software Available

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

Options

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

PD6300

ProVu® Pulse Input Flow Rate/Totalizer

FLOW RATE/TOTAL

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
- Count up or down, total & grand total
- 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
- On-board digital input

Free Software Available

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



PROVU®
SERIES



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-485 serial communications
- SunBright display models

PD6310

ProVu® Pulse Input Batch Controller

BATCH CONTROL



PROVU®
SERIES



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
- Count up or down, total & grand total
- On-board digital input
- Modbus® RTU communication protocol

Free Software Available

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

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-485 serial communications
- SunBright display models

PD6363

ProVu® Pulse Dual-Input Rate/Totalizer

DUAL-INPUT
RATE / TOTALIZER

Quick Overview

Input: Dual 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

- Quadrature inputs
- Display rate, total, or grand total for either channel, or math
- Math functions based on rate, total, or grand total
- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, ratio, and concentration math functions
- Count up or down, total & grand total
- Count up or down based on digital input
- Count up or down based on second input
- 5, 10 or 24 VDC isolated flowmeter power supply
- Convert pulse input or math result to a 4-20 mA output

Free Software Available

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



PROVU®
SERIES



Options

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

PD7000

ProVu® Temperature Meter

TEMPERATURE



PROVU®
SERIES



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)
- On-board digital input
- Programmable function keys
- Modbus® RTU communication protocol

Free Software Available

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

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-485 serial communications
- SunBright display models

PD765 X2

Trident X2 Process & Temperature Meter

PROCESS & TEMP

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

- 1° or 0.1° resolution with RTD
- 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

Free Software Available

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



Options

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

PD765

Trident Process & Temperature Meter

PROCESS & TEMP



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

- 1° or 0.1° resolution with RTD
- 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

Free Software Available

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

Options

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

PD603

Sabre P Process Meter

Sabre Series

PROCESS

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



PD644

Javelin D High-Voltage DC Meter

HIGH VOLTAGE

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



PD743

Sabre T Temperature Meter

Sabre Series

TEMPERATURE

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

- 1° or 0.1° resolution with RTD
- Maximum/minimum display
- Pre-calibrated for all input types
- Easy front panel programming
- Shallow depth enclosure 3.2" behind panel



PD865

Snooper Modbus® Serial Input Meter

Snooper

MODBUS INPUT

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



MeterView® Pro

Software For ProVu® Series

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-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

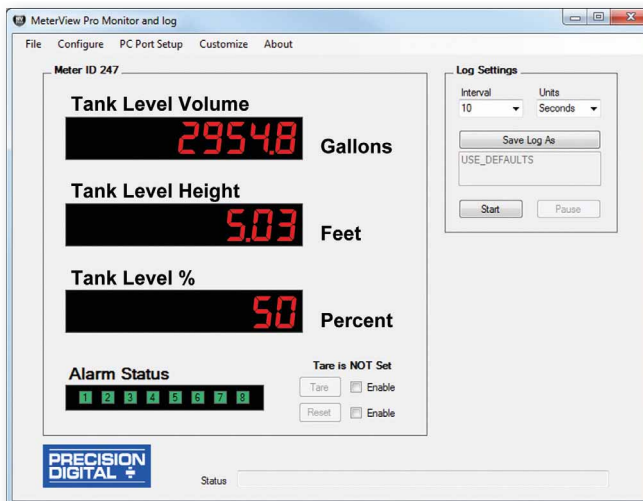
Required Adapter

PDA8008 ProVu® USB serial adapter (recommended)

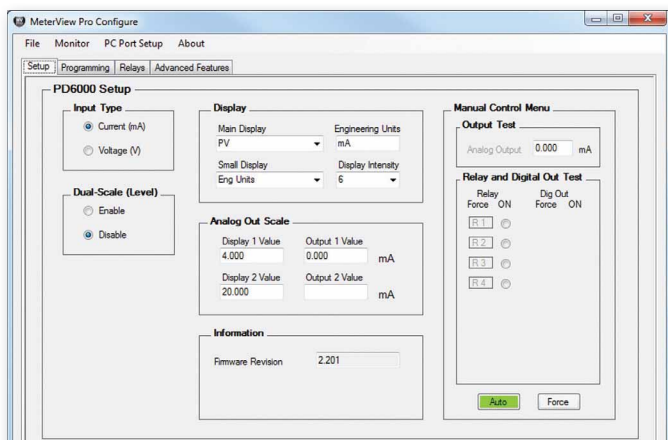
or

PDA1232 ProVu® RS-232 serial adapter

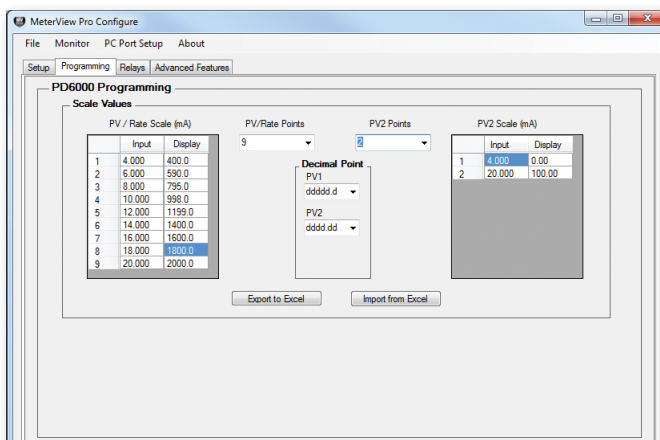
Configuring & Monitoring Software for ProVu® Series



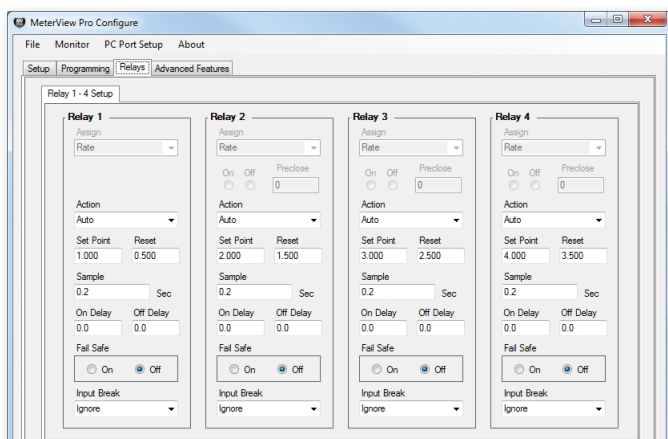
Monitor & Datalog



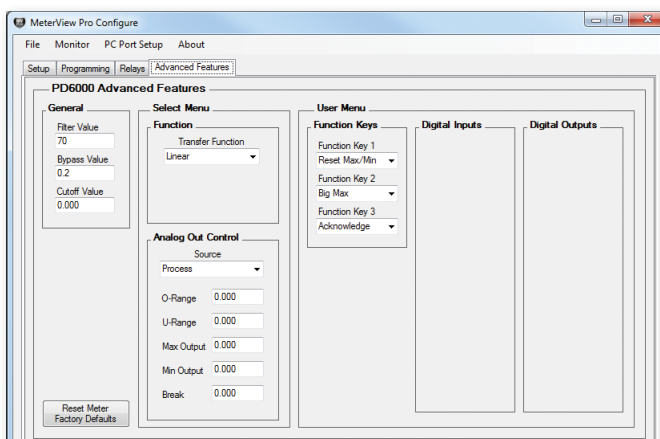
Setup



Linearization Utility



Relays



Advanced Features

MeterView®

Software For Trident Series

Quick Overview

System Requirements: Windows® XP (SP3), Vista, 7, 8
(Note: Windows® 32-bit and 64-bit operating systems only)

Communications: USB, RS-232, or RS-485 Adapter

Meter Address: 00 - 99

Reports: Data logging: Save as HTML file format

Configuration: Save as plain text, 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

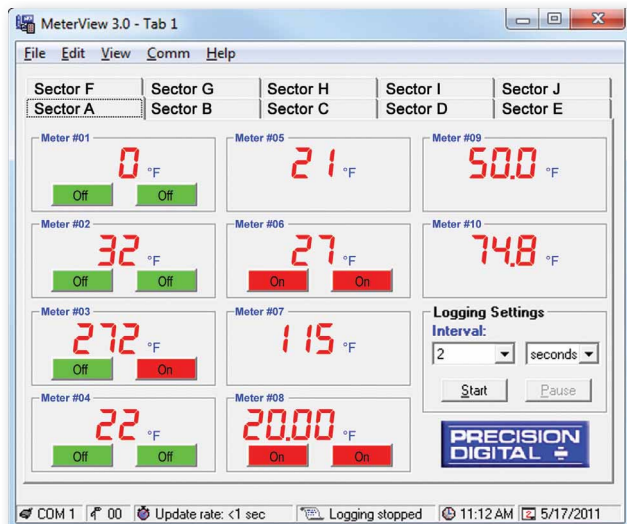
Required Adapter

PDA8006 Trident USB serial adapter (recommended)

or

PDA7232 Trident RS-232 serial adapter

Configuring & Monitoring Software for Trident Series



PROVu® Accessories

Expansion Modules

PDA1004: 4-relay module

PDA1011*: Dual 4-20 mA output module

PDA1044: 4 digital I/O module

Additional Accessories

PDA1002: DIN-rail mounting kit

PDA1200: Meter copy cable

Serial Adapters

PDA1232: RS-232 serial adapter

PDA1485: RS-485 serial adapter

PDA8008: USB serial adapter

* PDA1011 for use with PD6060, PD6080, PD6081, PD6262, and PD6363 only.



Trident Accessories

Serial Adapters

PDA7232: RS-232 serial adapter

PDA7422: RS-485 serial adapter

PDA8006: USB serial adapter

Additional Accessories

PDA7420: Meter copy cable



Serial 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



Need Help Selecting an Enclosure?

www.predig.com/esu



PDA2322



PDA2407



PDA2446



PDA2501



PDA2601



PDA2703



PDA2801



PDA2901

PDA2300 Plastic Economical

Thermoplastic Polyester NEMA 4X Mount Externally	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

Thermoplastic Polyester NEMA 4X Mount Externally	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

Steel NEMA 4 Mount Externally	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

Plastic NEMA 4X Mount Internally	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

Stainless Steel NEMA 4X Mount Externally	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

Plastic NEMA 4X Low-Cost	Model	# of Meters	Type				
			A	B	C	D	E
	PDA2801	1			•	•	
	PDA2811	1	•	•	•	•	•
	PDA2812	2	•	•	•	•	•
	PDA2821	2	•		•	■	•

• Available ■ 1 Required

PDA2440 Explosion-Proof

Cast-Aluminum	Model	# of Meters	Type				
			A	B	C	D	E
	PDA2444	1	•	•	•	•	•
	PDA2445	2		•			
PDA2446	2	•		•	•	•	•

Meter Types

Type	Meters
A	PD690
B	PD542, PD543, and PD562
C	PD603, PD644, PD683, PD684, PD688, PD689, PD743, PD765, and PD865
D	PD138, PD154, and PD158
E	PD6000, PD6060, PD6080, PD6081, PD6100, PD6200, PD6210, PD6262, PD6300, PD6310, PD6363, and PD7000

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

PD662

Survivor NEMA 4X Process Meter

PROCESS

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
- ½" NPT conduit hole
- HART protocol transparent
- Multipoint linearization and square root function

Options

- Heater
- Loop-powered backlight



Survivor



PD683

Loop Leader® Process Meter

PROCESS



Loop Leader
Series



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

PD684

Loop Leader® Rate/Totalizer

FLOW RATE/TOTAL

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



Loop Leader®
Series



PD685

NEMA 4X Process Meter

PROCESS

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



PD686

NEMA 4X Process Meter

PROCESS



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

PD688

Loop Leader® Process Meter

PROCESS

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



Loop Leader®
Series



PD689

Loop Leader® Rate/Totalizer

FLOW RATE/TOTAL



Loop Leader®
Series



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

PD663

ProtEX-Lite Process Meter

PROCESS

Quick Overview

Input: 4-20 mA

Display: 3½+ digits, 0.6" (15.24 mm)

Case: Smooth die-cast aluminum explosion-proof

Power: Loop-powered

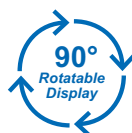
Operating Temperature: -40 to 75°C

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
- Programmable noise filter
- Multipoint linearization and square root function

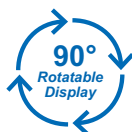


Explosion-proof. Complete product approved.

PD6800

ProtEX-Pro Process Meter

PROCESS



Explosion-proof. Complete product approved.

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

PD6801

ProtEX-F&I Feet & Inches Meter

FEET & INCHES
ANALOG INPUT

Quick Overview

Input: 4-20 mA

Display: 0.6" (15.24 mm) feet & inches upper display;
7 alphanumeric character lower display 0.4" (10.2 mm)

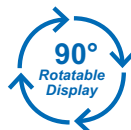
Case: Smooth die-cast aluminum explosion-proof

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 linearization
- Level and volume
- Level and percent
- Open collector Hi or Lo alarm
- Tank height bargraph

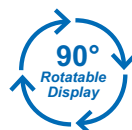


Explosion-proof. Complete product approved.

PD6820

ProtEX-RTA Analog Input Flow Rate/Totalizer

FLOW RATE/TOTAL



Explosion-proof. Complete product approved.

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

The New PD6830

Pulse input explosion-proof flow rate/totalizer



Explosion-proof. Complete product approved.



What's New

- Automatic unit conversions
- On-board 1024 point data logging
- Added display capabilities
- -40°C operation
- RS-485 Modbus serial communications
- 13-digit total rollover
- Enhanced inputs
- 2 open collector outputs standard
- Longer battery life
- Customizable menu structure

PD6830

ProtEX-RTP Pulse Input Flow Rate/Totalizer

FLOW RATE/TOTAL

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

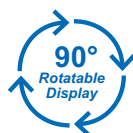
Operating Temperature: -40 to 75°C (-20 to 75°C battery)

Features

- SafeTouch® through-glass button programming
- Up to 13-digit total with overflow display
- Mounts directly to flowmeter
- Automatic rate, total, & grand total unit conversions
- On-board data logging (1024 points)
- Two isolated open collector pulse outputs, up to 5 kHz
- Backlight standard on all models

Options

- Isolated 4-20 mA output for rate, total, or grand total
- Isolated or non-isolated RS-485 with Modbus® communications

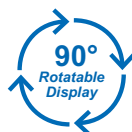


Explosion-proof. Complete product approved.

PD6870

ProtEX-FarVu Large Display Meter

PROCESS



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.

PD6830X

ProtEX-MFI F&I Super Snooper Modbus Scanner

FEET & INCHES
MODBUS SCANNER

Quick Overview

Input: Modbus® RTU

Display: 0.6" (15.24 mm) feet & inches upper display;
7 alphanumeric character lower display 0.4" (10.2 mm)

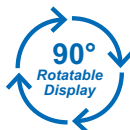
Case: Smooth die-cast aluminum explosion-proof

Power: 9-30 VDC

Operating Temperature: -40 to 75°C

Features

- Master, slave, or snooper mode
- Scan multiple tanks
- SafeTouch® through-glass button programming
- Alphanumeric tag names
- Flanges for wall or pipe mounting
- Backlight standard
- Password protection
- 32-point linearization
- Two open collector alarm outputs
- Tank height bargraph

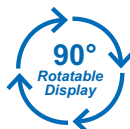


Explosion-proof. Complete product approved.

PD6830X

ProtEX-MS2 Super Snooper Modbus Scanner

MODBUS SCANNER



Explosion-proof. Complete product approved.

Quick Overview

Input: Modbus® RTU, pulse

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

Case: Smooth die-cast aluminum explosion-proof

Power: 9-30 VDC

Operating Temperature: -40 to 75°C

Features

- Master, slave, or snooper mode
- Scan multiple process variables (PV)
- SafeTouch® through-glass button programming
- Alphanumeric tag names
- Flanges for wall or pipe mounting
- Backlight standard
- Password protection
- 32-point linearization channel
- Two open collector pulse or alarm outputs

PD8-154

ProtEX-MAX 4-Point Annunciator

ANNUNCIATORS

Quick Overview

Input: Switch, transistor, logic level

Display: 4 red LED indicators

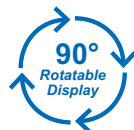
Case: Smooth die-cast aluminum explosion-proof

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
- Multiple-unit first-out indication
- 2 SPDT relays for alarm activated devices
- Silence, acknowledge, and reset functions
- SafeTouch® through-glass button programming
- Flanges for wall or pipe mounting

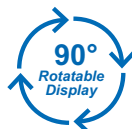


Explosion-proof. See website for details.

PD8-158

ProtEX-MAX 8-Point Annunciator

ANNUNCIATORS



Quick Overview

Input: Switch, transistor, logic level

Display: 4 or 8 red LED indicators

Case: Smooth die-cast aluminum explosion-proof

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
- Multiple-unit first-out indication
- 2 SPDT relays for alarm activated devices
- Silence, acknowledge, and reset functions
- SafeTouch® through-glass button programming
- Flanges for wall or pipe mounting



Explosion-proof. See website for details.

PD8-6000

ProtEX-MAX Process Meter

PROCESS

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

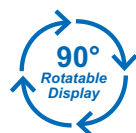
Operating Temperature: -40 to 65°C

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
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

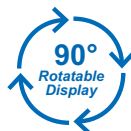


Explosion-proof. See website for details.

PD8-6060

ProtEX-MAX Dual-Input Process Meter

DUAL-INPUT
PROCESS



Explosion-proof. See website for details.

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
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

PD8-6080

ProtEX-MAX Super Snooper Modbus Scanner

MODBUS SCANNER

Quick Overview

Input: Modbus® RTU;

Dual 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V)

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

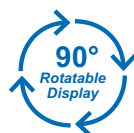
Operating Temperature: -40 to 65°C

Features

- Master, slave, or snooper mode
- Scan up to 16 PVs
- Programmable function keys
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

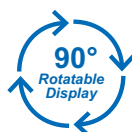


Explosion-proof. See website for details.

PD8-6081

ProtEX-MAX F&I Super Snooper Modbus Scanner

FEET & INCHES
MODBUS SCANNER



Quick Overview

Input: Modbus® RTU;

Dual 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V)

Display: Dual-line 6-digit, 0.60" (15 mm) feet & inches upper display, & 0.46" (12 mm) lower display

Case: Smooth die-cast aluminum explosion-proof

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

Operating Temperature: -40 to 65°C

Features

- Master, slave, or snooper mode
- Scan multiple PVs
- Level and volume
- Programmable function keys
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models



Explosion-proof. See website for details.

PD8-6100

ProtEX-MAX Strain Gauge Meter

STRAIN GAUGE

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

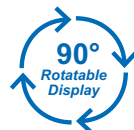
Operating Temperature: -40 to 65°C

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
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models



ProtEXTM
MAX

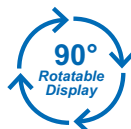


Explosion-proof. See website for details.

PD8-6200

ProtEX-MAX Analog Input Rate/Totalizer

FLOW RATE/TOTAL



ProtEXTM
MAX



Explosion-proof. See website for details.

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
- Count up or down, total & grand total
- 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
- 4 on-board digital inputs and outputs
- 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
- SunBright display models

PD8-6210

ProtEX-MAX Analog Input Batch Controller

BATCH CONTROL

Quick Overview

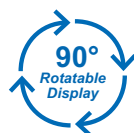
Input: 0-20 mA, 4-20 mA; ± 10 VDC (0-5, 1-5, 0-10 V);
Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

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
- Count up or down, total & grand total
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models



ProtEXTM
MAX

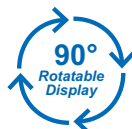


Explosion-proof. See website for details.

PD8-6262

ProtEX-MAX Analog Dual-Input Rate/Totalizer

DUAL-INPUT
RATE / TOTALIZER



ProtEXTM
MAX



Explosion-proof. See website for details.

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

- Display rate, total, or grand total for either channel, or math
- Math functions based on rate, total, or grand total
- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, ratio, and concentration math functions
- Count up or down, total & grand total
- 5, 10 or 24 VDC isolated flowmeter power supply
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

PD8-6300

ProtEX-MAX Pulse Input Rate/Totalizer

FLOW RATE/TOTAL

Quick Overview

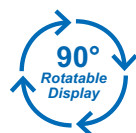
Input: Pulse, open collector, NPN, PNP, TTL, switch contact, sine wave (coil), square wave; Modbus PV (slave)
Display: Dual-line 6-digit, 0.60" (15 mm) & 0.46" (12 mm)
Case: Smooth die-cast aluminum explosion-proof
Power: 85-265 VAC or 12/24 VDC option
Operating Temperature: -40 to 65°C

Features

- Displays rate and total simultaneously
- Count up or down, total & grand total
- 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
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models



ProtEX
MAX

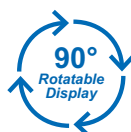


Explosion-proof. See website for details.

PD8-6310

ProtEX-MAX Pulse Input Batch Controller

BATCH CONTROL



ProtEX
MAX



Explosion-proof. See website for details.

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
- Count up or down, total & grand total
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

PD8-6363

ProtEX-MAX Pulse Dual-Input Rate/Totalizer

DUAL-INPUT
RATE / TOTALIZER

Quick Overview

Input: Dual 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

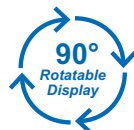
Operating Temperature: -40 to 65°C

Features

- Quadrature inputs
- Display rate, total, or grand total for either channel, or math
- Math functions based on rate, total, or grand total
- Addition, difference, absolute difference, average, multiplication, division, min of A or B, max of A or B, draw, weighted average, ratio, and concentration math functions
- Count up or down based on digital input or second input
- 5, 10 or 24 VDC isolated flowmeter power supply
- Convert pulse input or math result to a 4-20 mA output
- SafeTouch® through-glass button programming
- 4 on-board digital inputs and outputs

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models

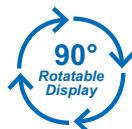


Explosion-proof. See website for details.

PD8-7000

ProtEX-MAX Temperature Meter

TEMPERATURE



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
- 4 on-board digital inputs and outputs
- Modbus® RTU communication protocol

Options

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
- SunBright display models



Explosion-proof. See website for details.

PD8-765

ProtEX-MAX Process & Temperature Meter

PROCESS & TEMP

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

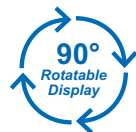
Operating Temperature: 0 to 65°C

Features

- 1° or 0.1° resolution with RTD
- 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



ProtEX
MAX

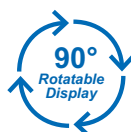


Explosion-proof. See website for details.

PD8-865

ProtEX-MAX Modbus® Serial Input Meter

MODBUS INPUT



ProtEX
MAX



Explosion-proof. See website for details.

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

Operating Temperature: -40 to 65°C

Options

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

Features

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

PD940

Consolidator 4 Four-Channel Controller (Wall)

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
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



PD941

Consolidator 4 Four-Channel Controller (Panel)

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: Panel
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



PD980

Consolidator 8 Eight-Channel Controller (Wall)

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
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



PD981

Consolidator 8 Eight-Channel Controller (Panel)

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: Panel
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



PD650

2.3" (57.3 mm) Large Display Process Meter

PROCESS



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

PD655

1.0" (25.4 mm) Large Display Process Meter

PROCESS

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



PD138

Minimux® II Temperature & 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

Options

- Current loop resistor

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

MINIMUX® II



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

Vigilante® II



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

Vigilante® II



PDS178

Temperature 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

Options

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

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



PD540

Nova Series Digital PID Controllers

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



NOVA CE cRU[®] US

PD550

Nova Series Ramp & Soak Controllers

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



NOVA CE cRU[®] US

PD560

Nova Series Digital Meters

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



NOVA CE cRU[®] US

PD570

Nova Series Limit Controllers

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



NOVA CE cRU[®] US

PD9500

Precision Calibrator

Quick Overview

Accuracy: 0.0025% of reading (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 reading (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



PD200

Digital Pressure Gauges

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

Options

- Backlight
- 2 relays
- 4-20 mA output

Features

- General purpose (PD205, PD206)
- 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



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