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
• Programmable noise filter
• Multipoint linearization and square root function

PD6800-0L1 ProtEX-Pro Level Meter

Quick Overview
Input: 4-20 mA
Display: 5-digit upper display 0.6” (15.24 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
• Level indication bargraph
• Open collector Hi or Lo alarm
• 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
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

EXPLOSION-PROOF INSTRUMENTS
2015-2016 CATALOG

PD6801 ProtEX-F&I Feet & Inches Level Meter

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 level bargraph
PD6820  ProtEX-RTA Analog Input Flow 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

PD6830  ProtEX-RTP Pulse Input Flow 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  
- 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
**PD6830X** ProtEX-MFI F&I Super Snooper 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  
- **Two open collector alarm outputs**  
- Tank level bargraph

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**PD6830X** ProtEX-MS2 Super Snooper Modbus Scanner

**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

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*Explosion-proof. Complete product approved.*
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

PD8-154  ProtEX-MAX 4-Point Annunciator

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
PD8-158 ProtEX-MAX 8-Point Annunciator

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

PD8-765 ProtEX-MAX 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, 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
**PD8-6000** ProtEX-MAX 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:* 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
- SunBright display

**Options**
- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays

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**PD8-6001** ProtEX-MAX Feet & Inches Level 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) 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**
- Feet & inches display ideal for level applications
- Dual-scale for level and volume 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
- SunBright display

**Options**
- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
**PD8-6060** ProtEX-MAX 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*: 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
- SunBright display

**Options**

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

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**PD8-6080** ProtEX-MAX Super Snooper 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
- SunBright display

**Options**

- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
**PD8-6081** ProtEX-MAX F&I Super Snooper 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
- SunBright display

**Options**

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

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**PD8-6100** ProtEX-MAX Strain Gauge Meter

**Quick Overview**

**Input:** 15, 30, 150, 300 mV unipolar; ±15, ±25, ±150, ±250 mV bipolar; 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**

- Selectable 5 or 10 VDC sensor excitation
- Supports up to twelve 350 Ω load cells (minimum load resistance of 28 Ω)
- 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
- SunBright display

**Options**

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

Options
• 4-20 mA output with isolated 24 VDC @ 40 mA power supply
• 2 or 4 form C internal relays

PD8-6210 ProtEX-MAX Analog Input Batch Controller

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
• SunBright display

Options
• 4-20 mA output with isolated 24 VDC @ 40 mA power supply
• 2 or 4 form C internal relays
**PD8-6262** ProtEX-MAX Analog Dual-Input Rate/Totalizer

**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
- SunBright display

**Options**
- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays

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**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
- 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
- SunBright display

**Options**
- 4-20 mA output with isolated 24 VDC @ 40 mA power supply
- 2 or 4 form C internal relays
PD8-6310  ProtEX-MAX Pulse Input Batch Controller

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
• SunBright display

Options

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

PD8-6310-WM  ProtEX-MAX Wt & Measures Batch Controller

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

• NTEP® Certified weighing and measuring device
• Mechanically secured programming lockout
• 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 overrun correction
• Manual control or automatic batching
• Count up or down, total & grand total
• Modbus® RTU communication protocol
• SafeTouch® through-glass button programming
• 4 on-board digital inputs and outputs
• SunBright display

Options

• 4-20 mA output with isolated 24 VDC @ 40 mA power supply
• 2 or 4 form C internal relays
PD8-6363  ProtEX-MAX Pulse 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
• SunBright display

Options

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

PD8-7000  ProtEX-MAX 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: 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
• SunBright display

Options

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