

**PRECISION
DIGITAL**

PRECISION DIGITAL CORPORATION
Since 1974

FEATURING
**NEW PRODUCTS
FOR 2023**

SOLUTIONS GUIDE

Enhance Your 4-20 mA Loop with a Precision Digital Meter or Controller

- ✓ Built-in Power Supply for Transmitter
- ✓ Relays for Control & Alarm
- ✓ Local Display for Just About Anywhere

IECEX     



Complete Line of Loop-Powered Meters



Watch Loop-Powered
Meters Video

[predig.com/
loop-powered](http://predig.com/loop-powered)

With All the Same Features & Functionality



2 Open
Collector
Outputs



2 Solid-State
Relays



4-20 mA
Output



Two-Color
Backlight



Dual-Line
Displays



Pump
Control



Batch
Control



Ex C E IECEx

Large Display

PD4 Loop Leader+ Series

- NEMA 4X, IP65 Rated Wall-Mount Enclosures
- Large 5-Digit, 2.8" High Top Display
- Safe Area and I.S. Models
- ATEX and IECEx Certified



1/8 DIN Panel Mount

PD6600 Loop Leader Series

- NEMA 4X, IP65 Rated Front 1/8 DIN Panel Mount Meters
- General Purpose and I.S. and N.I. Models
- UL, C-UL, and CE Approved

VantageView+ C E

Field-Mount

PD6900-GP VantageView+ Series

- NEMA 4X, IP66 Rated Plastic Enclosure
- CapTouch Through-Window Buttons
- General Purpose

Explosion-Proof

PD6900-HA ProtEX+ Series

- NEMA 4X, IP68 Rated Aluminum and Stainless Steel Enclosures
- CapTouch Through-Glass Buttons
- Operating Temperature of -55 to 60°C
- Explosion-Proof & I.S.
- CSA, ATEX, and IECEx Certified



MeterView XL Software Programs All These Products

Complete Line of Line Powered Displays and Controllers

In All Shapes, Sizes, and Locations



Big, Bright Sunlight
Readable Displays



Large Dual-Line
6-Digit Display



24 VDC
Transmitter
Power Supply



85-265 VAC or
12-24 VDC
Power Options



4-20 mA, 0-10 V, TC,
RTD, Strain Gauge, High
Voltage, Modbus Inputs



Up To Four
3 A Form C
Relays (SPDT)



Large Display

PD2 Helios Series

- 1.8" Digits Readable from 100 Feet
- NEMA 4X, IP65 Rated Enclosure
- Operating Temperature -40 to 65°C
- UL and C-UL Approved



Explosion-Proof

PD8 ProtEX-MAX Series

- NEMA 4X, IP68 Rated Aluminum and Stainless Steel Enclosures
- SafeTouch Through-Glass Buttons
- Operating Temperature of -55 to 60°C
- CSA, ATEX and IECEx Certified Explosion-Proof Meter



1/8 DIN Panel Mount

ProVu Series

- NEMA 4X, IP65 Rated Front
- Programmable Function Keys
- UL, C-UL, and CE Approvals
- 1/8 DIN Size



MeterView Pro Software Programs All These Products

Industrial Wireless



**PRECISION
DIGITAL
WIRELESS**

Signal Wire Replacement Systems

PDW30 & PDW90 Wireless Systems

- Simple Wire Replacement Solutions
- Analog and Discrete (Digital) Inputs and Outputs
- Up to (32) 4-20 mA Signals with PDW90
- Isolated RS-485 Modbus Communications
- 1 Mile Line-of-Sight Outdoor, 500 Feet Indoor Range
- Loss of Signal (LoS) Digital Output
- Field Units with Two Form A (SPST) 5A Relays Optional
- Field Units with CapTouch Through-Glass Button Programming with Normal and Delayed Modes
- Field Units Housed in IP68, NEMA 4X Die-Cast Aluminum or Stainless Steel Enclosures
- Base Station with 0, 2, 6, 16 I/O Modules; Zero (0) I/O Modules for Modbus Only
- Base Station Housed in Plastic NEMA 4X Field Enclosure
- Operating Temperature -55 to 75°C

PDW Manager Software

An easy-to-use tool for programming the PDW30 or PDW90 wireless products.



Stainless Steel Explosion-Proof



**ProtEX™
Lite**



Loop-Powered Process Meter PD663 in Stainless Steel

- ATEX & CSA Certified for Explosion-Proof
- 4-20 mA Input
- Loop-Powered
- 1.7 Volt Drop (4.7 Volt Drop with Backlight)
- 0.6" (15.2 mm) 3½+ Digits LCD Display; -1999 to 2999
- Loop-Powered Backlight
- Operating Temperature -40 to 75°C
- Installation Temperature -55 to 75°C
- Explosion-Proof, IP68, NEMA 4X 316 Stainless Steel Enclosure
- Two 1/2" NPT or M20 Conduit Openings



**ProtEX™
FarVu**



Loop-Powered Process Meter PD6870 in Stainless Steel

- ATEX & CSA Certified for Explosion-Proof
- 4-20 mA Input
- Loop-Powered
- 1 Volt Drop (4 Volt Drop with Backlight)
- 1.0" (25.4 mm) 3½ Digits LCD Display; -1000 to 1999
- Operating Temperature -40 to 75°C
- Installation Temperature -55 to 75°C
- Explosion-Proof, IP68, NEMA 4X 316 Stainless Steel Enclosure
- Two 3/4" NPT or M20 Conduit Openings

See All New Products at predig.com/whatsnew

Process & Temperature Meters and PID Controllers

In 1/4, 1/8, 1/16 DIN Sizes

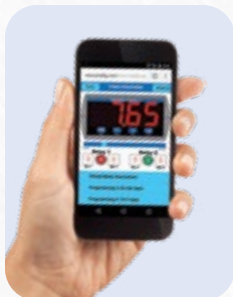


Process & Temperature Meters

PD765 Trident & Trident X2

The PD765 Trident & Trident X2 digital panel meters are two of the most versatile digital panel meters on the market and will satisfy a wide variety of process and temperature applications.

- 1/8 DIN Digital Panel Meter with NEMA 4X, IP65 Front
- 4-20 mA, ± 10 V, TC & RTD Field Selectable Inputs
- 4-Digit Display, 0.56" (14.2 mm) or 1.20" (30.5 mm)
- Shallow Depth Case Extends Only 3.6" (91.4 mm) Behind Panel
- 24 VDC @ 200 mA Transmitter Power Supply Option
- 2 Relays + Isolated 4-20 mA Output Options
- Free MeterView Programming & Monitoring Software
- Sunlight Readable Display
- Operating Temperature -40 to 65°C
- UL & C-UL Listed. E160849; UL 508 Industrial Control Equipment
- Duplex Pump Controller with Alternation Capability
- External Contacts for Remote Button Operation (Trident X2 Only)



Trident Virtual Meter

Test drive the Trident X2 and see why it's time to upgrade your old panel meters.



Try it now
tvm.predig.com

Process & Temp PID Controllers

PD500 SuperNova Series

A Superior line of auto-tuning PID and on/off process & temperature controllers with a striking reverse polarity LCD screen displaying up to three lines of process information.

- 1/16, 1/8 (V), and 1/4 DIN Sizes
- Thermocouple, RTD, DC Voltage, DV Current Inputs
- 4-20 mA, SSR drive, & Relay Outputs for Control, Alarm, & Retransmit
- High Accuracy Auto-Tuning PID
- High Durability, IP65 Front with Hard Plastic Pushbuttons
- Large 14-Segment PV Display up to 1.1" (29 mm)
- Easily Switch Between Auto & Manual Control Modes
- Remote Set Value 1-5 V or 4-20 mA Option
- USB Port Standard
- UL & C-UL Recognized Process Control Equipment, Electrical – Component
- Auto Stepping & Auto Ramping

SuperNova TCS Software

Used for monitoring, data logging, programming, and troubleshooting SuperNova controllers.



See PD138 Minimux II Series for Process & Temperature Scanning

The PLC Alternative

PLC Capabilities, No Programmer Needed.



Schedule Events
for Specific
Days/Times



Timers to
Control Events
and Outputs



Easily Use
Boolean Logic on
Alarms/Relays



Build Complex
Math Functions
Step-by-Step



Automatically
Change Inputs
Based on Events



Modbus TCP/IP
to integrate into
SCADA



Multivariable Controller

PD9000 Consolidator+ Series

- **NEW** UL and C-UL Listed for General Safety and Div 2 Hazardous Locations
- **NEW** Auto-Tune PID Control for Multiple Control Loops
- **NEW** PID Control with Analog, Digital, or Relay Outputs
- **NEW** HOA and Other 2, 3, and 4-Way Switch Functions to Route Inputs & Outputs
- NEMA 4X Panel Mount
- Display, Control, & Alarm of Multiple 4-20 mA & Pulse Inputs
- Isolated 24 VDC Transmitter Supplies 200 mA / Analog Input
- Multi-Pump Alternation Control
- Modbus Client, Server, Snooper, and Spoofer Modes
- USB Data Logger
- Free Programming Software
- Operating Temperature -40 to 60°C



Watch PLC Capabilities
Recorded Webinar

predig.com/PLC

Display and Control Multiple Common Process Signals Simultaneously



Lift Station
Control



pH / Analytical
Control



Batch
Control



Gas
Detection



Open Channel
Flow



Flow
Control



Use Free Consolidator+ Software for Even Easier Setup

Visible and Audible Ways to Indicate Alarms

Including Light/Horns and Alarm Annunciators



Watch the Light/Horn Video

predig.com/light

Light/Horn & Button for PD2 & PD4 Series MOD-PD2LH Modification

- Light/Horn and Button Mounted and Wired to Unit
- Powered by PD2. External Power Required for PD4
- Available in Various Colors



Light/Horn PDA-LH Light/Horn Series

- Single Lights in Red, Green, Yellow, Blue, or White
- Units with One of Five User Selectable Lights
- Units with Red, Yellow, and Green Layered Lights
- Light/Horn Programmable for Variety of Reset Functions, Including:
 - Silence Horn at Any Time
 - Light Stays on Until Alarm Clears
 - Light Can Be Wired to Flash or Stay Steady On
- IP65 Rated
- 85 dB Horn
- Operates Temperature -40 to 40°C



Light/Horn & Button for Enclosures MOD-LH Modification

- Holes Drilled for Light/Horn and Button in Enclosure
- Powered by Meter or External Power
- Available in Various Colors

Alarm Annunciators PD154 & PD158 Vigilante II

- 8 Field Selectable Sequences
- All Common ISA Sequences
- Switch, Transistor, Logic Level Inputs
- 4 or 8-Point Monitoring
- Operating Temperature -40 to 65°C

Need Help Choosing the Right Enclosure? Go to predig.com/ESU

Do you want to stop climbing tanks to get level measurements?

Hazardous Area Level Display in Tank Farm

The PD6801 displays level in feet and inches for those who prefer that format over decimal. It is loop-powered so no additional wiring or power is needed.

-40 to 75°C operation

Products

PD2-6001, PD4-6603, PD6001, PD6603, PD6907-GP.

Hazardous Area: PD4-6607, PD6607, PD6907-HA, PD8-6001.



Powering Up the Level Transmitter

One of the most useful features found on all of our line-powered level meters is a built-in isolated, 24 VDC power supply to power up the level transmitter.

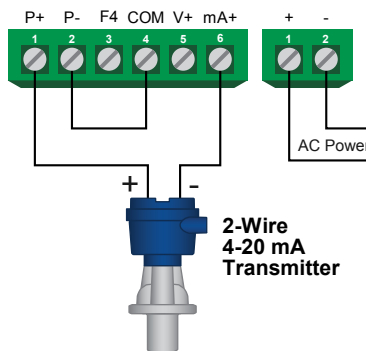
This feature saves money by eliminating the need for an external power supply. Plus, it simplifies wiring by reducing the number of devices in the loop.

Products

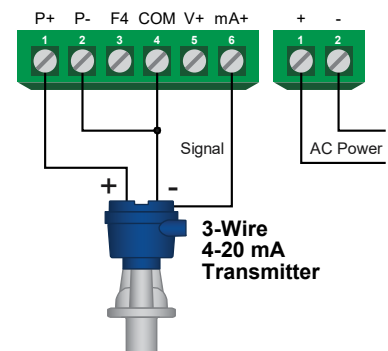
PD2-6000, PD2-6001, PD2-6060, PD765, PD6000, PD6001, PD6060.

Hazardous Area: PD8-765, PD8-6000, PD8-6001.

How were you planning to power your transmitter?



2-Wire Transmitter Connections



3-Wire Transmitter Connections
(Provides up to 200 mA)

Dual-Scale Feature

This unique feature lets you display the measured input in two different ways. Both display lines are scaled independently and are based on the same 4-20 mA input signal.

Products

PD2-6000, PD4-6604, PD6000, PD6602, PD6908-GP. **Hazardous Area:** PD6606, PD4-6608, PD6908-HA, PD8-6000.



Gallons & Percent Full



Gallons & Height

Now you know how much is in the tank, and how full it is.

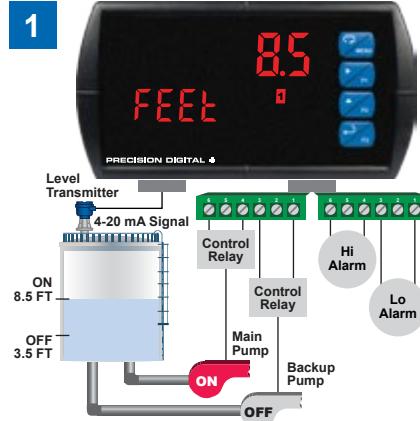
Pump Control with Alternation of up to 8 Pumps

Many pump control applications don't require the sophistication and complexity of a PLC, nor the cost of a programmer.

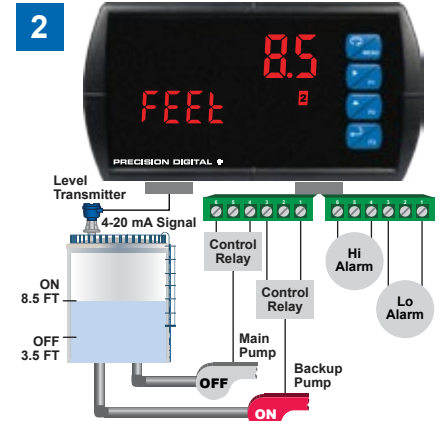
How It Works

The meter powers up the level transmitter. The meter displays the level in feet. Two relays are set up to control and alternate the main and backup pumps, while two other relays are used for high and low alarms.

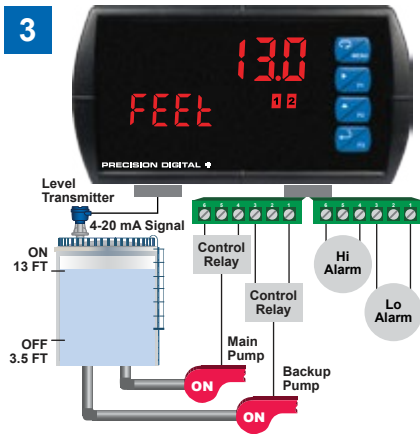
What are you doing for sump-pump control?



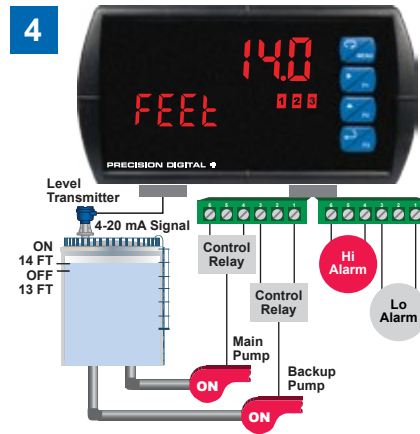
Relay #1 turns the main pump on at 8.5 feet and turns it off at 3.5 feet.



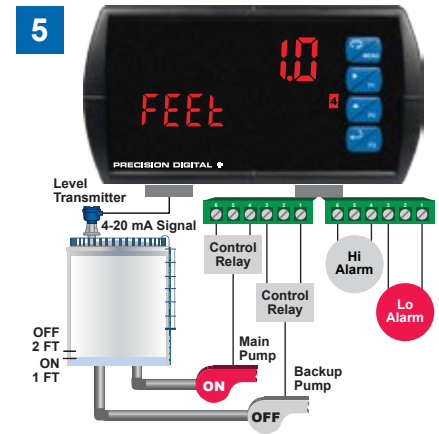
With the Pump Alternation feature activated, the next time the level reaches 8.5 feet, relay #2 transfers and starts the backup pump.



If the backup pump is not able to keep up, and the level reaches 13 feet, then relay #1 transfers and starts the main pump as well.



Relay #3 trips the High Level Alarm at 14 feet and resets at 13 feet.



If the Main Pump fails to turn off, Relay #4 trips the Low Level Alarm at 1.0 foot to warn against the pump running dry.

Products

PD2-6000, PD2-6001, PD2-6060, PD4-6604, PD765, PD6000, PD6001, PD6060, PD6602, PD6603, PD6604 PD6908-GP, PD9000. **Hazardous Area:** PD4-6608, PD6606, PD6607, PD6608, PD6908-HA, PD8-765, PD8-6000, PD8-6001, PD8-6060.



Your Transmitter



Your Solution

Meter in Enclosure with Light / Horn on Side of Tank

These provide level indication and control with visible and audible alarms. Local redundant control can prevent over filling and keep submersible pumps safe.

Tank Farm



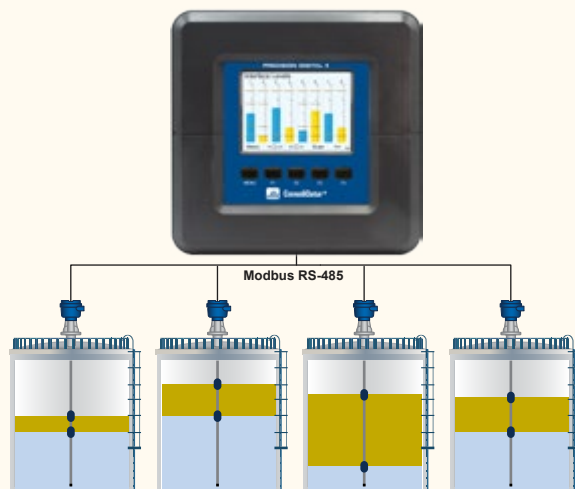
Level Monitoring of Multiple Tanks

The ConsoliDator+ can display up to 8 tanks from 4-20 mA signals on a single screen, or up to 28 total. It may also be configured to display up to 20 different screens in a variety of formats, with and without bargraphs. Relays, 4-20 mA outputs, and Ethernet Modbus TCP/IP are available.

Products

PD9000

Level, Temperature & Interface



Modbus Client/Snooper/Spoofers

The ConsoliDator+ is available with Modbus Client, Snooper, and Spoofers capabilities and has the ability to scan and display up to 199 Modbus registers. Use Modbus to display level, interface level, temperature and other variables from multivariable level transmitters.

Products

PD2-6080, PD6080, PD6088, PD6730X, PD9000.

Hazardous Area: PD6830X, PD8-6080.



Tank Height

Display Tank Height in Feet & Inches Outdoors Next to Tank

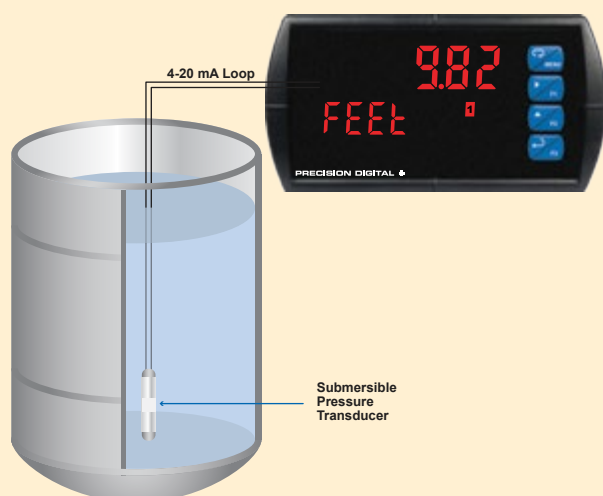
This Helios Large Display Meter is mounted high-up on a building next to the tank so it can be read from a distance. This particular Helios displays in feet and inches because that is how the customer is used to seeing their levels displayed. Line 2 can be programmed to toggle between units (LEVEL) and percent full or volume if dual-scale mode is enabled.

Products

PD2-6001, PD2-6081, PD4-6603, PD6001, PD6081, PD6089, PD6603, PD6730X, PD6907-GP.

Hazardous Area: PD4-6607, PD6607, PD6830X, PD6907-HA, PD8-6001, PD8-6081.

Pressure Transducers



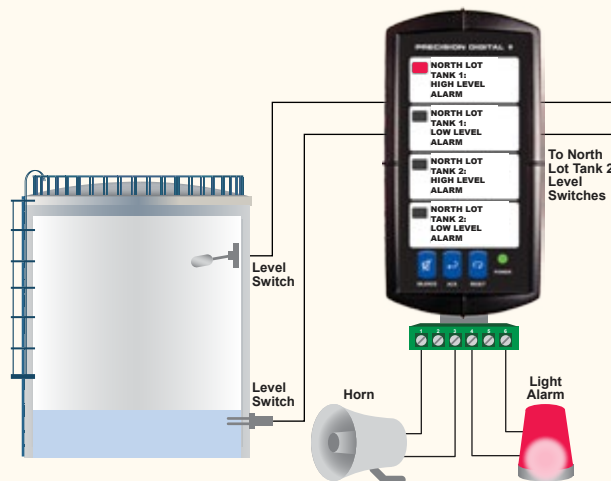
Submersible Pressure Transducer

Combine a Precision Digital meter with a submersible pressure transducer for a great way to measure and control level in a tank, sump, well, lift station, etc. Our meters provide power to the pressure transducer and relays for alarm and pump control.

Products

PD2-6000, PD2-6001, PD2-6060, PD765, PD6000, PD6001, PD6060. **Hazardous Area:** PD8-765, PD8-6000, PD8-6001, PD8-6060.

Point Level



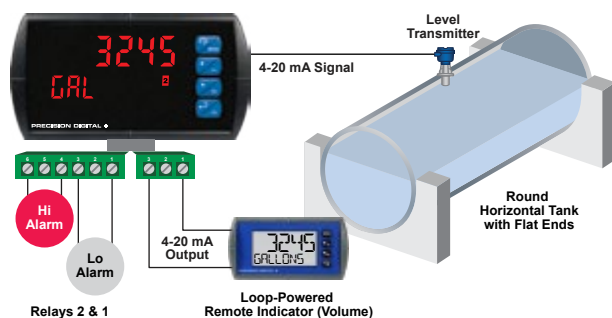
Level Switch Monitoring & Annunciation

Use our Vigilante 1/8 DIN or explosion-proof annunciators to indicate the status of up to eight level switches. Free custom labels, variety of alarm sequences, front panel Silence, Ack & Reset buttons and 2 relays to drive external devices like horns or lights.

Products

PD154, PD158. **Hazardous Area:** PD8-154, PD8-158.

Volume of Non-Linear Tanks



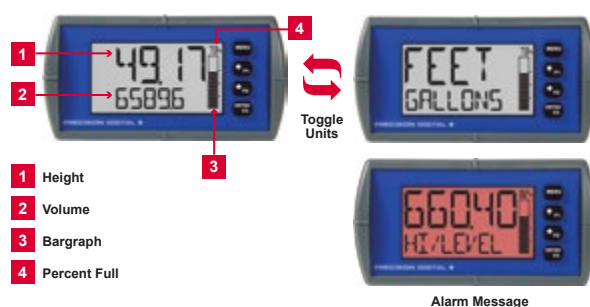
Round Horizontal Tanks

Automatically calculate the volume in a round horizontal tank with flat ends with the Round Horizontal Tank feature. Just enter diameter & length of tank and results are calculated in US gallons. For other non-linear tanks use 32-point linearization.

Products

PD2-6000, PD4-6604, PD6000, PD6604, PD6908-GP. **Haz Area:** PD4-6608, PD6608, PD6908-HA, PD8-6000.

4 Ways to Display Level



Dual-Line Bargraph Displays

Display line 1 indicates height, while display line 2 displays volume. The bargraph shows how full the tank is. The meter can also toggle between value and engineering units. Finally, the red backlight with a message flashes on alarm.

Products

PD4-6604, PD6604, PD6908-GP. **Hazardous Area:** PD4-6608, PD6608, PD6908-HA.

Is your flowmeter mounted in a place where it is hard to see its built-in display?

Display Rate and Total at the Same Time



Dual-Line Display

Makes it possible to show rate and total from a pulse or 4-20 mA signal at the same time. Grand total can also be displayed, plus engineering units.

Products

PD2-6200, PD2-6300, PD4-6624, PD6200, PD6300, PD6622, PD6624, PD6928-GP.

Hazardous Area: PD4-6628, PD6626, PD6628, PD6928-HA, PD8-6200, PD8-6300.

Convert Pulse to 4-20 mA with PD6300



Pulse Converter

The PD6300 accepts the pulse output from a flowmeter and with the appropriate option installed can convert the pulse to a 4-20 mA signal. The 4-20 mA signal can be programmed to correspond to either the flow rate or the total flow.

Products

PD2-6300, PD2-6363, PD6300, PD6363, PD6730.

Hazardous Area: PD6830, PD8-6300, PD8-6363.

Open Channel Flow



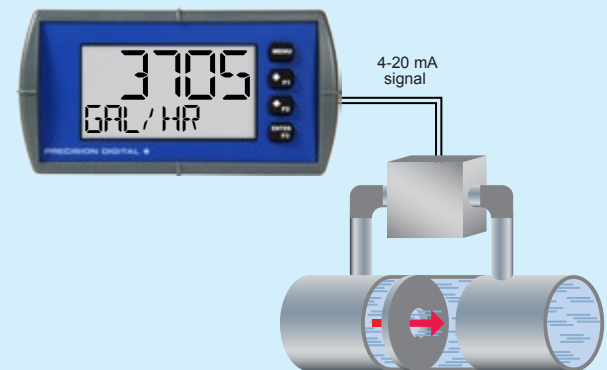
Programmable Exponent Function

Using a level sensor to measure the height in a weir, the meter converts that signal to flow rate using the programmable exponent function. Simply input the corresponding exponent for the weir and the meter converts the signal to flow.

Products

PD2-6200, PD4-6624, PD6200, PD6622, PD6624, PD6928-GP. **Hazardous Area:** PD4-6628, PD6626, PD6628, PD6928-HA, PD8-6200.

Differential Pressure Flow



Square Root Extraction

Extract the square root from the 4-20 mA signal from a differential pressure transmitter and the meter displays flow rate. The user selectable low-flow cutoff feature gives a reading of zero when the flow rate drops below a user selectable value.

Products

PD2-6200, PD4-6624, PD6200, PD6622, PD6624, PD6928-GP. **Hazardous Area:** PD4-6628, PD6626, PD6628, PD6820, PD6928-HA, PD8-6200.

Batch Control

Our batch controllers are available for single-stage applications and multi-stage batching from pulse or 4-20 mA flowmeters.

How It Works

Operation is quick and easy, right out of the box, with the START, BATCH, and STOP buttons pre-programmed for batch controlling. Preclose relays can be used to slow product flow for more accurate batch finish. Automatic overrun correction keeps batch sizes accurate even over time and with system wear.

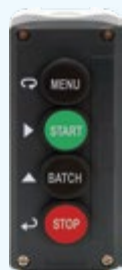
Benefits

- Single or multi-stage batch control (up to 8 relays)
- Start / Pause / Stop, change Batch with front buttons
- Automatic overrun correction
- Automatic or manual batch control
- Low or high flow alarms while batching
- Panel mount, wall mount or exp-proof
- NTEP Weights and Measures approved models available

Products

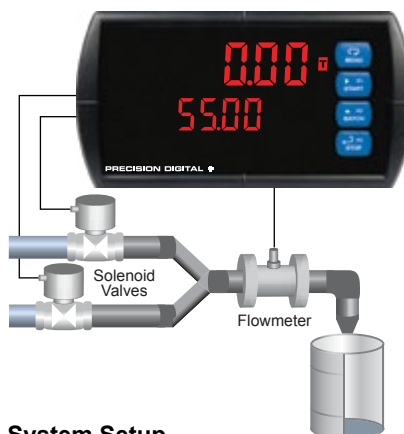
PD2-6210, PD2-6310, PD4-6624, PD6210, PD6310, PD6310-WM, PD6622, PD6624, PD6928-GP, PD9000. **Hazardous Area:** PD4-6628, PD6626, PD6628, PD6928-HA, PD8-6210, PD8-6310, PD8-6310-WM.

Remote Batch Operation



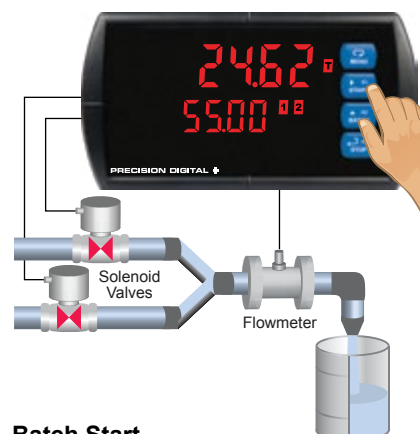
PDA2364-MSBS

Remotely start and stop batch as well as change batch preset.



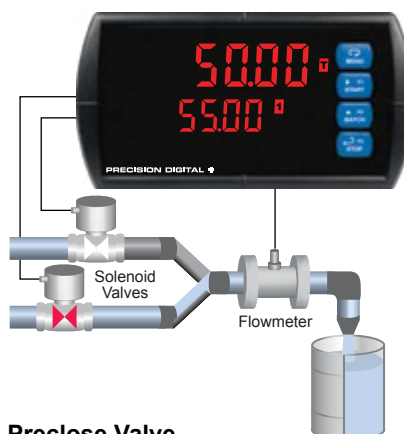
System Setup

Both valves are closed with an empty barrel in place. The batched total is displayed in the upper display, the preset is selected for the lower display.



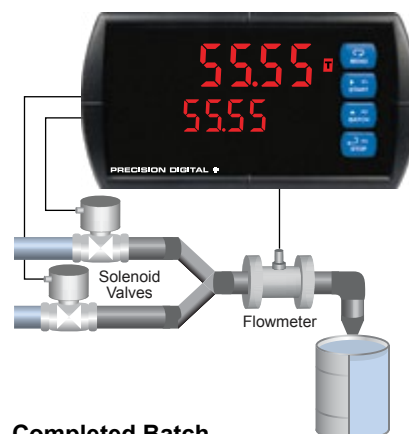
Batch Start

The START button is pressed. Both valves open. The barrel begins to fill.



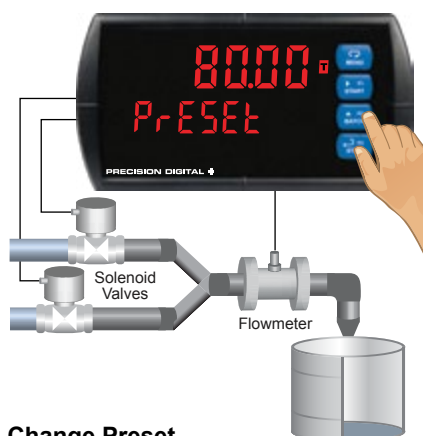
Preclose Valve

When the batch total reaches a value of 50.00 (Preset [55.00] – Preclose [5.00]) the full-flow valve closes. The fill rate of the tank slows as a result.



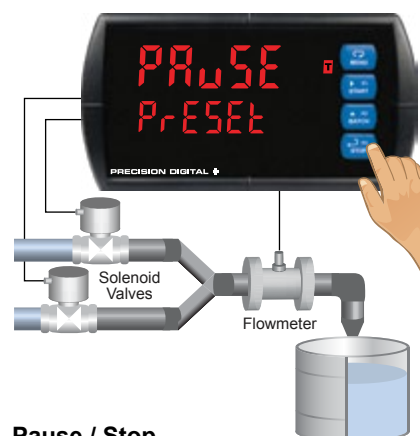
Completed Batch

When the batch is complete, the restricted-flow valve closes. If overrun occurs, then the next batch will adjust for this offset amount to maintain accuracy.



Change Preset

After placing a new, empty barrel, a new preset fill amount may be selected with the Batch key, while the process is stopped.



Pause / Stop

At any time, the STOP button may be pressed, once to Pause the process, or twice to cancel the batch, which stops the process.

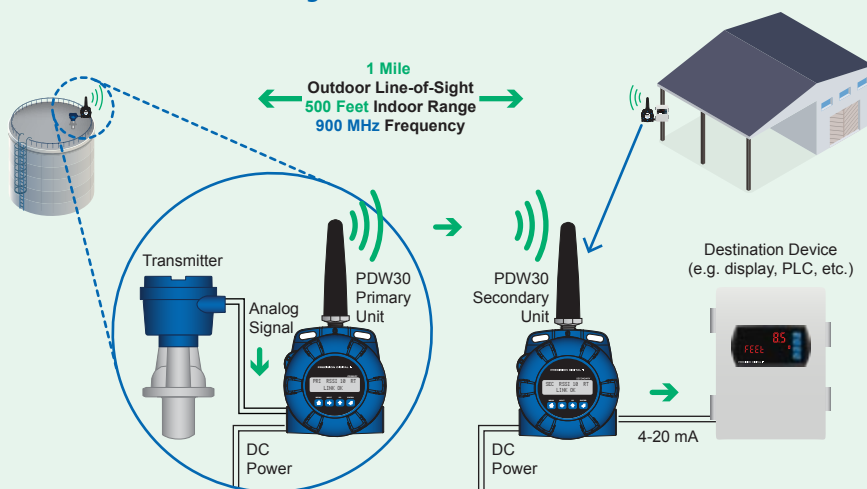
Is it too expensive or inconvenient for you to run conduit for your 4-20 mA signals?

Make Your 4-20 Level Transmitter a Wireless Device

1. A level transmitter connected to the PDW30's primary unit, sends the transmitter's signal wirelessly to a secondary unit.
2. The secondary unit receives the signal and sends it to a digital panel meter in a control room.



Point to Point Systems



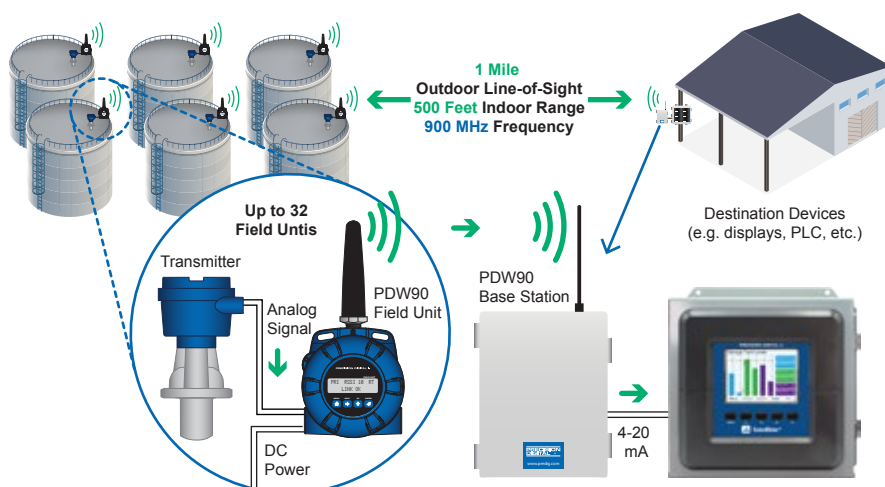
A Simple Wire Replacement Solution

The PDW30 is plug and play ready out of the box to wirelessly bridge a 4-20 mA signal. In addition, the PDW30 can transmit 4 digital I/O signals and RS-485 Modbus RTU.

Products

PDW30

Point to Multi-Point Systems



Connecting Multiple Devices Wirelessly

Wireless remote monitoring of tank levels is a great application for the PDW90. Multiple transmitters are outputting 4-20 mA signals to wireless field units. The 4-20 mA signals are being wirelessly broadcasted to the PDW90 base station which sends 4-20 mA signals to the destination devices. System supports up to 32 field units.

Products

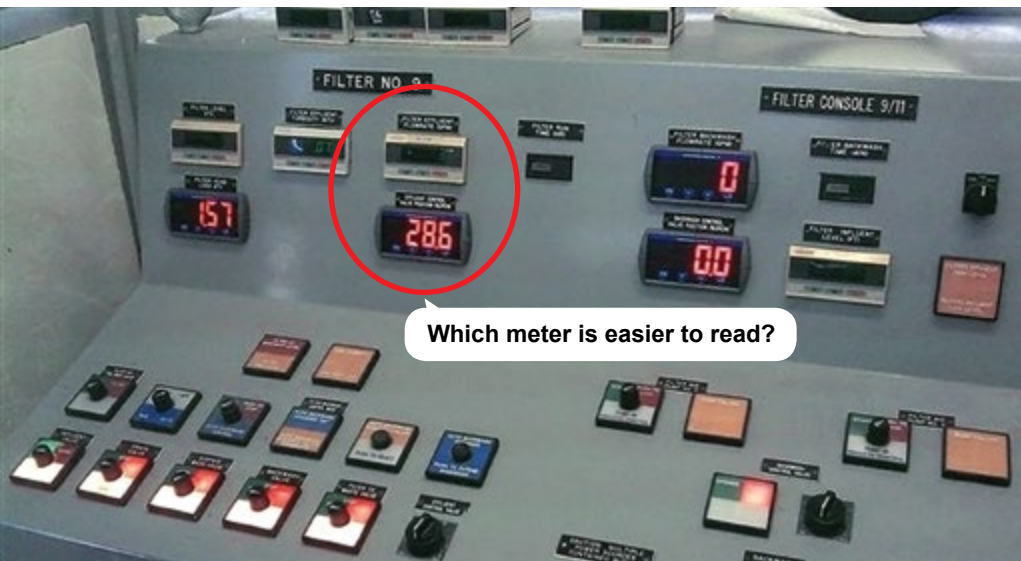
PDW90

Filter Press Panels Upgrade

The Trident X2 1/8 DIN digital panel meter is a great replacement for dim, hard to see, or small digit digital panel meters on filter press consoles. The Trident X2 features a 1.2" (30.5 mm) display that is typically more than twice the size of older meters with displays of 0.56" (14.2 mm). The Trident is UL Listed and features a NEMA 4X front panel.

Products

PD765 X2



Digester Temp



The standard display size Trident meter is displaying sludge outlet temperature on Digester 10.

Products

PD765, PD7000.

Digester Level



A Loop Leader is displaying Digester level in engineering units as indicated by "Feet" on the display line 2. No additional power is required for meter.

Products

PD6602, PD6603, PD6604.

Pump Speed



The customer really appreciated being able to read the Trident X2's large display from much farther away than the previous meters.

Products

PD765, PD6000, PD6602.

Effluent Flow

Though the application did not require an explosion-proof meter, the customer chose the PD6820 for its rugged NEMA 4X/IP66 enclosure. The top line is displaying million gallons per day and the bottom line is displaying total gallons.

Products

PD2-6200, PD4-6624, PD6200, PD6624, PD6928-HA.



Upstream



Extracting

The PD6830 mounts directly to the turbine flowmeter and provides local display of total flow and re-transmits a Modbus signal back to the central control station.

Benefits

- Display Rate, Total & Grand Total
- On-Board Data Logging
- Modbus RS-485 Option
- All models Operate from -40 to 75°C
- Battery, DC, or Output Loop-Powered

Products

PD6830

Midstream



Div 2 Compressor Panels

Precision Digital's older style Loop Leader loop-powered meters are installed on this Division 2 compressor panel.



New Loop Leaders feature a dual-line display and bargraph and can flash red on alarm condition.

Products

PD6606, PD6608



Downstream



Refining

Two PD8-765 ProtEX-MAX meters at an oil refinery are displaying level in two sumps and perform dual pump alternation in each sump.

Benefits

- Supplies 24 VDC to Power the Transmitter
- Big 1.2" Display Can be Seen from a Distance
- 2 Relays for Pump Control & Alternation
- Ex-Proof Approved as Complete Product

Products

PD8-765

Explosion-Proof

Worldwide Approvals

Our explosion-proof indicators and controllers carry all major approvals including CSA, ATEX and IECEx for use in hazardous areas around the world. And unlike our competitors, our products are approved as a complete unit; not just a meter stuffed inside an exp-proof enclosure.



Line or Loop-Powered Meters

To power the transmitter, go with line-powered meters like the one above. For meters to be powered entirely from the 4-20 mA loop, then choose loop-powered meters like the one below.



Through-Glass Buttons

Through-glass buttons allow for convenient operation of the meter without removing the cover (and exposing the electronics) in a hazardous area.

Products

Hazardous Area: PD8 Series, PD6900-HA Series.

Intrinsically Safe & Nonincendive



Panel Mount

The Loop Leader Series is UL and C-UL Listed as intrinsically safe and nonincendive, and ATEX / IECEx Certified for intrinsic safety (gas atmospheres). These models are also UL and C-UL Listed for electrical safety and Type 4X front panel. All models are CE marked.

Products

Hazardous Area: PD6600 Series, PD9000.



Field Mount

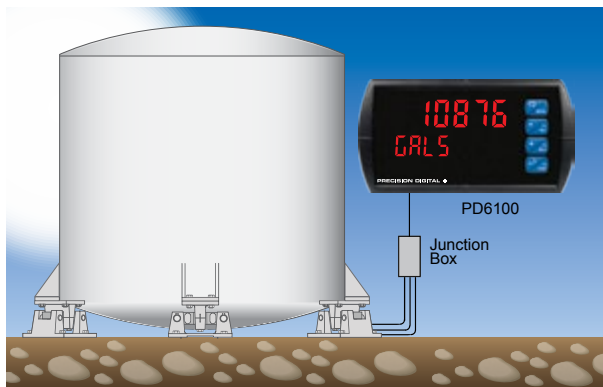
The PD685 is certified by CSA, ATEX and IECEx as intrinsically safe, suitable for use in gas and dust hazardous areas. The PD686 is FM Approved and CSA Certified as intrinsically safe and nonincendive. Both come in a NEMA 4X/IP66 enclosure with a 1/2" conduit hole.

Products

Hazardous Area: PD4-6600 Series, PD685, PD686.

-40 to 65° / 75°C operation

Load Cells



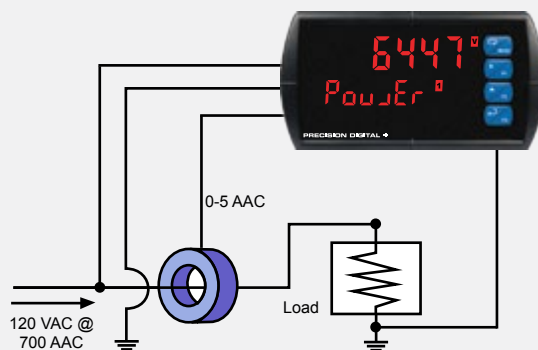
Tank Weighing with Load Cells

The PD6100 receives a combined signal from a junction box connected to three load cells under each of the three tank legs. The weight of the empty tank and the full tank weight are programmed into the meter. Over time the zero feature accounts for obstacles like sludge buildup.

Products

PD2-6100, PD6100. **Hazardous Area:** PD8-6100.

High Current & High Voltage



Apparent Power Calculation

The PD6400 is ideal for measuring direct voltage and current or the output from voltage shunts and current transformers. Use it with a single voltage or current input, or to measure both simultaneously. A math channel calculates apparent power.

Products

PD2-6400, PD6400, PDA1500, PDA6405.

Temperature



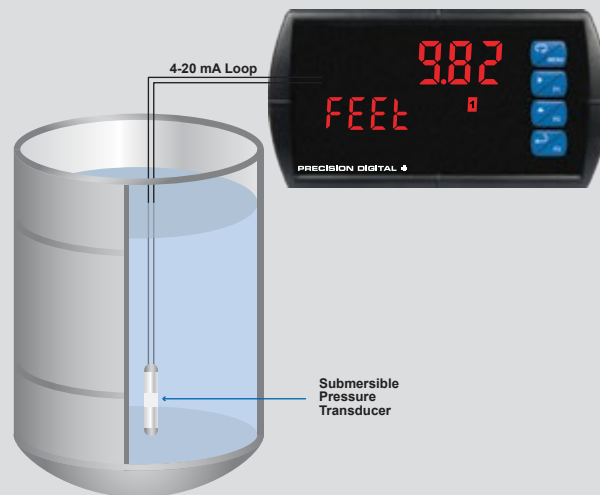
Temperature Applications

Bearing temperature monitoring, temperature indication, and temperature control with auto-tuning PID capabilities. Also available are temperature scanners, and meters that function as explosion-proof temperature transmitters.

Products

PD138, PD2-7000, PD510, PD520, PD530, PD743, PD765, PD7000. **Hazardous Area:** PD8-765, PD8-7000.

Pressure



Level with Pressure Transducers

Combine a Precision Digital meter with a submersible pressure transducer for a great way to measure and control level in a tank, sump, well, lift station, etc. Our meters provide relays for alarm and pump control.

Products

PD2-6000, PD2-6001, PD2-6060, PD765, PD6000, PD6001, PD6060. **Hazardous Area:** PD8-765, PD8-6000, PD8-6001, PD8-6060.

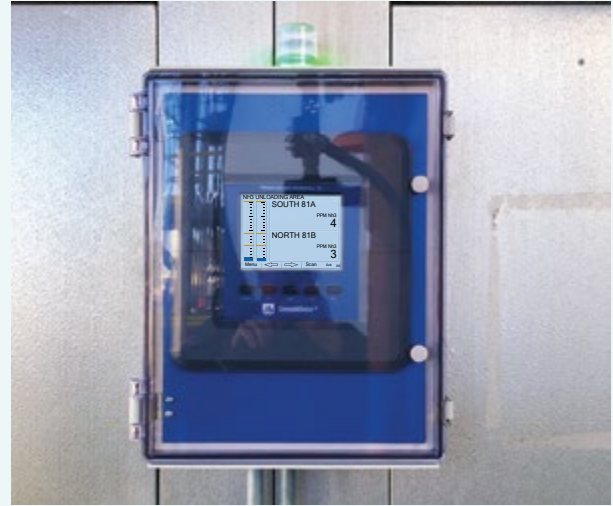
Displaying Outside Ammonia



Gas Detection at Power Plant

A PD2-6000 displays the 4-20 mA output from a gas detector on a big display. Here, gas detection systems located in shelters throughout a power plant are used to monitor and display levels of ammonia (NH_3) and CO_2 .

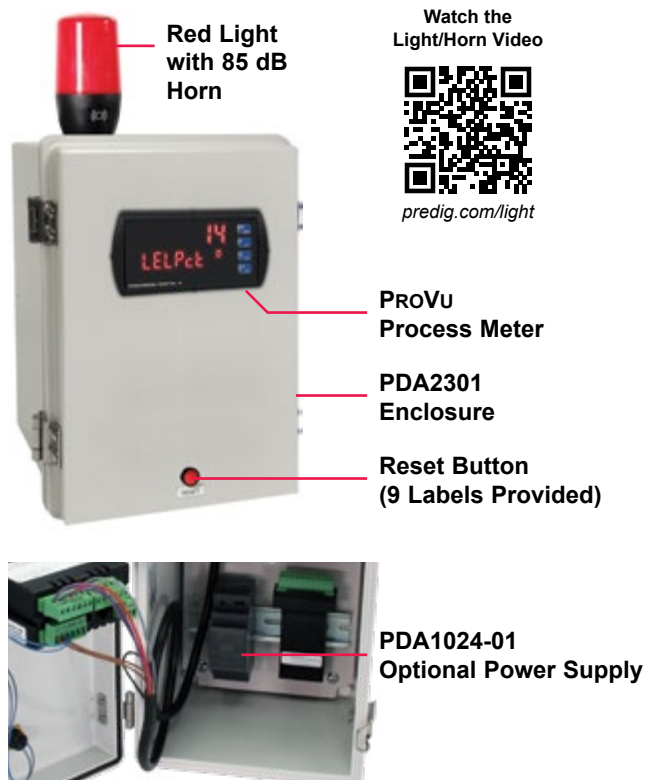
Ammonia Gas Detection



Gas Detection at a Power Plant

PD9000 receives (2) 4-20mA inputs from ammonia gas detectors. Relay outputs are connected to the light/horn and to the sprinkler system. During sensor calibration, outputs can be disabled for a configurable amount of time to prevent false alarms.

Display & Alarm System



Precision Digital offers a wide variety of NEMA 4X enclosures that can include a MOD-LH Light/Horn and Button. This modification includes a light/horn, button, and cutouts in the enclosure to mount them.

Example: MOD-LH for Gas Detection

The PD6000-6R7 mounted in a PDA2301 enclosure with MOD-LHRB1 Light / Horn accessory makes a convenient display and alarm system for gas detection applications. For gas detectors that require more than the 200 mA power the PD6000 can provide, Precision Digital offers the PDA1024-01 1.5 A power supply.

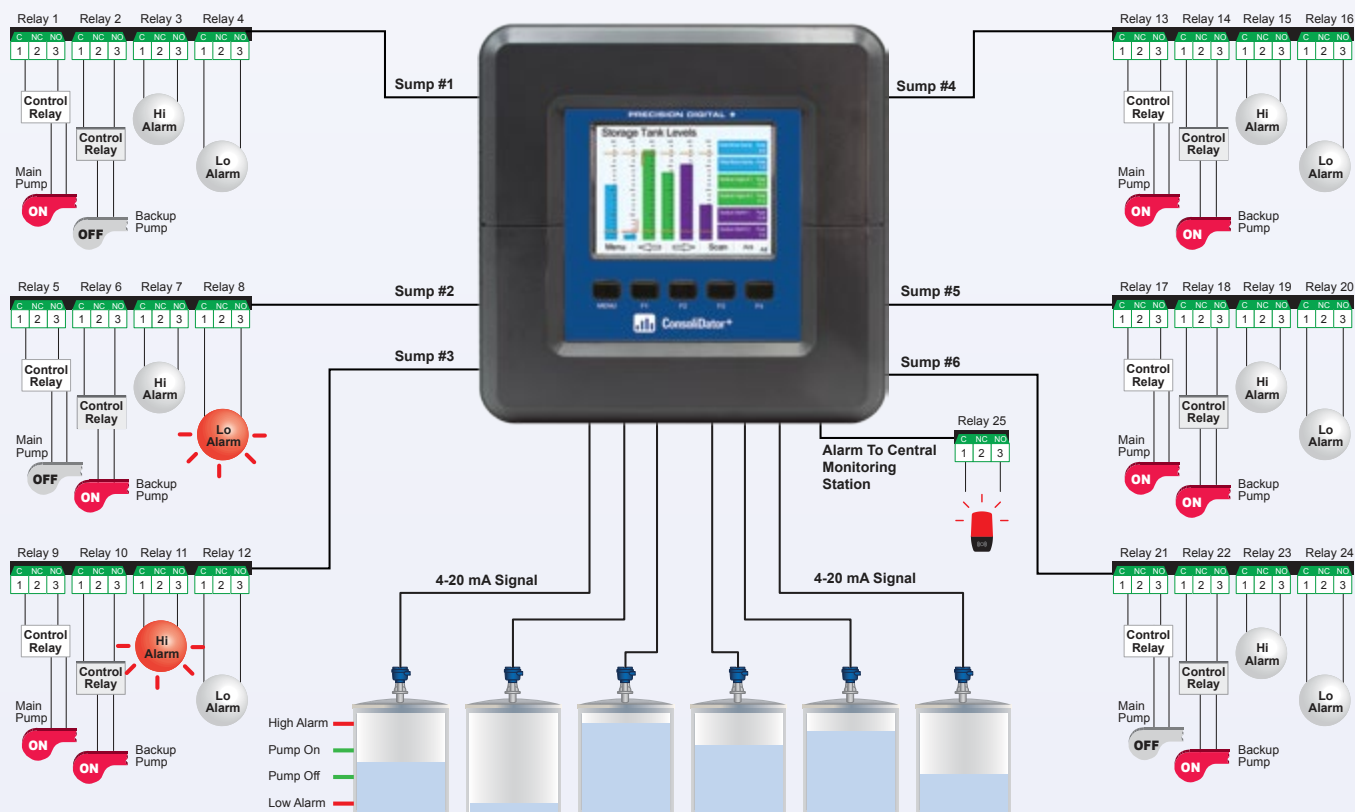
Operation

Input: 4-20 mA = 0-100 LEL

Relay	Purpose	Trip	Reset	Action
1	Red Light	20	15	Latch
2	Horn	20	15	Latch with Clear
3	High Alarm to a Central Control System	40	35	-
4	Fault Signal to a Central Control System	-5	0	-

Control Level in Multiple Sumps with 1 ConsoliDator+

One ConsoliDator+ monitors and controls 6 sumps. All 4-20 mA inputs from the level transmitters are isolated and powered by the ConsoliDator+. Twenty four 10 A Form C relays control and alternate 2 pumps in each sump, providing high and low level alarms. One relay sends a signal to a control room when any sump goes into high alarm. Ethernet Modbus TCP/IP is available.



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