The Series DDX Explosion Proof Digital Display is a two-line, analog-input panel meter with Class I, II, and III, Division 1 Explosion proof approvals. With two configurable, six-character lines and eight LED alarm indicators, the DDX fits a lot of information in a compact area. The DDX is easily programmed with the four buttons on the face or through a USB connection to a PC. DDX has the versatility and functionality you need from an explosion proof panel meter.

Features

- 2-line, 6-character display
- Easy 4-button programming
- Explosion-proof housing meets NEMA 4X, 7, 9, & IP68
- Current Inputs: 4-20 or 0-20 mA
- Voltage Inputs: 0-5, 1-5, 0-10 VDC
- 1 Digital Input / Input Contact
- Current Output: Isolated 4-20 mA
- Relay Outputs: 2 or 4 SPDT Relays
- Up to 25 mA for powering sensor
- Configurable High/Low alarms
- Alternating Pump Control (with output relays)
- Eight user-selectable display intensity levels
DDX Specifications

**Performance**
- Display:
  - 2 lines, 6 characters each
  - Top line: 0.6” (15mm) characters
  - Bottom line: 0.46” (12mm) characters
- Display Update Speed:
  - 200 ms (5 updates per second)
- Accuracy:
  - ±0.03% of calibrated span

**Connectivity**
- Input Options:
  - 0-20 mA, 4-20 mA
  - 0-5 VDC, 1-5 VDC, 0-10 VDC, ±10 VDC
- Output Options:
  - 2 or 4 SPDT Relays
  - Isolated 4-20 mA
- Sensor Power Supply
  - 24/10/5 VDC, up to 25 mA
- Analog Output Power Supply
  - 25 mA @ 24 VDC

**Environmental**
- Front panel rating: NEMA 4X, IP65
- Storage Temp: -40º - 185ºF (-40º - 85ºC)
- Operating Temp: -40º - 149ºF (-40º - 65ºC)

**Physical**
- Size:
  - 6.42” x 7.97” x 8.47” (163 mm x 202 mm x 215 mm)
- Weight:
  - 16.0 oz (7.26 kg)

**Electrical**
- Supply Voltage:
  - VAC: 85 - 265
  - VDC: 12 - 24
- Input Impedence:
  - Voltage Inputs: > 500 kΩ
  - Current Inputs: 50 - 100 Ω
- SPDT Relays:
  - 3 A @ 30 VDC / 125/250 VAC resistive loads
  - 1/14 HP (≈ 50 W) @125/250 VAC inductive loads
- Input Contact/Digital Input
  - Contact Voltage: 3.3 VDC
  - Digital Input Logic High: 3 - 5 VDC
  - Digital Input Logic Low: 0 - 1.25 VDC
  - Default Logic: Normally Open/Low

**Programming**
- Programmable Features:
  - Min/Max, Tare, Hold
  - Multi-scale Input Display (e.g. Level & Volume)
  - Noise Filter
  - High/Low Alarms
  - Alternating Pump Control
  - Time Delay for Output Relays
- Methods:
  - 4 Front-panel Push Buttons
  - MeterView Pro Software (with PC)
# Common Model Configurations

## Din Mount Digital Display

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDX-A00</td>
<td>85 - 265 VAC input power, No outputs (visual display only)</td>
</tr>
<tr>
<td>DDX-A10</td>
<td>85 - 265 VAC input power, 4-20 mA output</td>
</tr>
<tr>
<td>DDX-A14</td>
<td>85 - 265 VAC input power, 4-20 mA output, 4 output relays</td>
</tr>
<tr>
<td>DDX-D00</td>
<td>12 - 24 VDC input power, No outputs (visual display only)</td>
</tr>
<tr>
<td>DDX-D02</td>
<td>12 - 24 VDC input power, 2 output relays</td>
</tr>
<tr>
<td>DDX-D14</td>
<td>12 - 24 VDC input power, 4-20 mA &amp; 4 output relays</td>
</tr>
</tbody>
</table>

## Certification

- **FM Certificate #3047283**
  - Enclosure: Type 4X; IP66
  - Class I, Div. 1, Groups B, C, & D;
  - Class II, Div 1, Groups E, F, & G;
  - Class III, Div 1, T5/T6
  - Class I, Zone 1, AEx d, IIC Gb T5/T6
  - Zone 21, AEx tb IIIC T90°C; Ta -40°C to +65°C
  - T6 Ta= -40°C to +60°C; T5 Ta= -40°C to +65°C

- **CSA/cCSAus Contract #2531731**
  - Class I, Div. 1, Groups B, C, & D;
  - Class II, Div 1, Groups E, F, & G;
  - Class III, Div 1
  - Class I, Zone 1, Ex d, IIC
  - Zone 21, Ex tb IIIC T90°C
  - -40°C < Tamb. < +60°C; Temperature Code T6
  - -40°C < Tamb. < +65°C; Temperature Code T5
  - Enclosure Type 4X & IP66

- **ATEX Certificate # Sira 12ATEX1182**
  - II 2 G D
  - Ex d IIC T* Gb
  - Ex tb IIIC T90°C Db IP68
  - Ta = -40°C to + *°C
  - *T6 = -40°C to +60°C
  - *T5 = -40°C to +65°C

- **IECEx Certificate # IECEx SIR 12.0073**
  - Ex d IIC T* Gb
  - Ex tb IIIC T90°C Db IP68
  - Ta = -40°C to + *°C
  - *T6 = -40°C to +60°C
  - *T5 = -40°C to +65°C
Model Configuration Options

Model Number: DDX - ____ ____ ____

A. Input Power

☐ A ▲ 85-265 VAC
☐ D 12-24 VDC

B. Analog Output

☐ 0 ▲ No Analog Output
☐ 1 4-20 mA Output

Note: ▲ Indicates this option is standard

C. Output SPDT Relays

☐ 0 ▲ No Relays
☐ 2 2 Relays
☐ 4 4 Relays