



19" NEMA 4X Remote Monitor - for Class 2 Div 2 Environments



The VT902ES is a NEMA 4X LCD designed to meet Class 2, Div 2 protection. The purge system uses a pressure switch to automatically trigger alarms in case of pressure loss.

Slim and Economical

With its moderate weight and small footprint, the VT902ES series is ideal for applications where both space and budget are limited.

Durable

The VT902ES monitors is fully enclosed in sealed, NEMA 4x, easy-open, stainless steel cases. The chassis has no external vents, so nothing can get under its skin, including weather, dust, dirt, moisture, oil, chemicals or other harsh contaminants. A hard-anodized cast aluminum heat exchanger and internal heat management system keep it cool in environments where ambient temperatures approach 50°C -- without using outside air.

With its lightweight yet rugged construction, and either precabled or bulkhead connectors, the VT902ES display is easily mounted on walls, stands, arms or other industrial equipment.

The display is available with optional brackets, that conforms to VESA flat panel mounting standards.

FEATURES

- ◆ Designed to Meet Class 2, Div 2 Protection
- ◆ Purge/Pressure System
- ◆ NEMA 4x sealed enclosure
- ◆ Water proof and dust proof
- ◆ Stainless steel construction
- ◆ Mid-size footprint
- ◆ Flexible mounting options
- ◆ Direct or KVM cabling to host
- ◆ LCD screen shielded by a Tempered Glass Protective Overlay

*Supports all VESA standard video formats

SPECIFICATIONS

Display

19 Inch , LCD screen shielded by a Tempered Glass Protective Overlay

Resolution Capabilities

SXGA

Pixel Format

1280 x 1024*

Standard Connection

VGA, Serial, Power

Enclosure

316 Stainless Steel Sealed
Anodized Aluminum Heat Sink

12" Handles

Environmental/Thermal

NEMA 4x
Water Proof
Dust Proof
50°C
IP65

CONTACT

HEADQUARTERS

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OPTIONS

- Purge System Mounting to Side (L/R), Top or Bottom

****Purge System w/Pressure Switch Next Page****

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Z Type Purge System w/ Pressure Switch (Class 2, Div 2 Protection)



**Purge System w/
Pressure Switch**

This Rapid Exchange® enclosure pressurization that operates on a supply of compressed instrument air or inert gas. It regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.



MATERIAL SPEC

Regulator Body

Zinc w/ Enamel Finish

Regulator Handle & Bowl

Polycarbonate

Rapid Exchange Gauge

ABS Plastic

Tube Fittings & Valves

316 SS Forged Body

Tubing

316 SS 1/4" .035 Welded

System Nameplates

Silk screened Lexan® & SS

Fastener Hardware

Zinc Plated and Stainless Steel

Mounting Plate

316 14 Ga #3 Brush SS

EXP Pressure Switch Body

Anodized Cast Alum.

Enclosure Warning

Nameplate

Silkscreened SS

Lexan® is a registered trademark of the General Electric Company.

Specifications

Shipping Weight

10 lb

Operating Temp. Range

40F to 120F

Supply Pressure Range

5 - 120 psi

Supply requirements

Clean air or inert gas

Safe Pressure Setpoint

.25"/1" @ safe pressure

Safe Pressure Flow Rate

0.1 - 3.5 SCFH - Enclosure integrity determines actual flow rate

System Supply Port

1/4" FPT

Enclosure Supply Fitting

1/4" tube fitting

Enclosure Reference Fitting

1/4" tube fitting

EPCU Conduit Port Size

1/2" FPT

EPCU Power Requirements

120 VAC 15amps

Dimensions

12" (H) x 8" (W) x 7.25" (D)

Height & Width dimensions reflect mounting plate measurements. Depth dimensions reflects overall measurement of system, including components.

Mounting

Side (L/R), Top or Bottom

OPERATION

In accordance with system instructions, start-up requires air supply to be engaged and enclosure power to be de-energized. In Class II areas, all dust must be removed from the enclosure(s). The enclosure protection vent (if used) must be tested and enclosure(s) must be sealed. The enclosure pressure control regulator is then used to set a safe reading on the enclosure pressure gauge. In Class II areas, power can be energized when safe pressure is stable. Loss of safe pressure in Class I or II areas requires immediate attention, unless power is de-energized. WPS style systems include an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

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