



Solutions for Demanding Applications

**19" NEMA 4X Remote Monitor - for Class 1 Div 1 Environments**



Picture  
Coming  
Soon

Rugged, mid-size monitors that can be used as front-office PCs or in hazardous area. The display is an ideal NEMA 4X solution for HMI.

**Slim and Economical**

With its moderate weight and small footprint, the VT950ES series is ideal for applications where both space and budget are limited.

**Durable**

The VT950ES 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 pre-cabled or bulkhead connectors, the VT950ES 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 Class1, Div1
- ◆ 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

**SPECIFICATIONS**

**Display**

19 Inch TFT, 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

\*Supports all VESA standard video formats

**OPTIONS**

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

**CONTACT**

**HEADQUARTERS**

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



## Purge System w/ Pressure Switch (Class 1, Div 1 Protection)



Purge System w/  
Pressure Switch

This Rapid Exchange® purging system 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. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. The system includes an Electrical Power Control Unit (EPCU) that monitors system operation and controls enclosure power. All start-up requirements must be satisfied before the EPCU will energize power to the enclosure(s). These processes reduce 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**

Polycarbonate

**Enclosure Pressure Gauge**

Alum. w/ Enamel Finish

**Tube Fittings**

316 SS Forged Body

**Tubing**

316 SS 1/4" .035 Welded

**System Nameplates**

Silk screened Lexan® & SS

**Fastener Hardware**

SS Screws & Bolts

**Mounting Plate**

316 14 Ga #3 Brush SS

**EPCU Enclosed Body**

Bead Blast Cast Alum.

**Enclosure Warning**

**Nameplate**

Silkscreened SS

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

### Specifications

**Weight**

38lb

**Temp. Range**

-20F to 120F

**Supply Pressure Range**

5 - 120 psi

**Supply requirements**

Clean air or inert gas

**Safe Pressure Setpoint**

.25" / 1.0"

**Safe Pressure Flow Rate**

0.1 - 3.5 SCFH - Enclosure integrity determines actual flow rate

**Safe Pressure Flow Rate**

4 SCFM / 240 SCFH - With regulator set to 60 psi min. during exchange

**Exchange Time**

As required - Time required to exchange 4 volumes within the enclosure(s), based on actual measured safe pressure flow rate or 5 minutes, whichever is greater

**System Supply Port**

1/4" tube fitting

**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 60Hz 10

**EPCU Power Consumption**

500mA

**Dimensions**

20" (H) x 11" (W) x 10.5" (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 EPCU power to be energized. The system must perform an exchange cycle (determined by the safe pressure flow rate — 5 minutes minimum) before power can be energized. Loss of safe pressure causes the EPCU to deenergize power to the protected enclosure(s). The purge system includes an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

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