VT750ES

Solutions for Demanding Applications

VARTECH SYSTEMS INC.

17” NEMA 4X Remote Monitor - for Class 1 Div 1 Environments

Rugged, mid-size monitors that can be used as front-office PCs or in hazardous area.

Slim and Economical
With its moderate weight and small footprint, the VT750ES is ideal for applications where both space and budget are limited.

Durable
The VT750ES is fully enclosed in a sealed, NEMA 4x, easy-open, stainless steel case. 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 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 VT750ES is easily mounted on walls, stands, arms or other industrial equipment.

With optional brackets, it 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

*Supports all VESA standard video formats

SPECIFICATIONS

Display Size
17 Inch
Resolution Capabilities
SXGA
Pixel Format
1280 x 1024*
Standard Connection
VGA, Serial, Power
Enclosure
316 Stainless Steel Sealed
Anodized Aluminum Heat Sink
10” Handles

Environmental/Thermal
NEMA 4x
Water Proof
Dust Proof
50ºC
IP65

OPTIONS

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

CONTACT

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Purge System w/Pressure Switch Next Page*

www.vartechsystems.com

VARTECH SYSTEMS INC.

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 of visual alarm systems.

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