



19.0" Enclosed Purged Workstation for Class 1 Div 2 Environments

The VT900ESW is a NEMA 4X system designed to meet Class 1, Div 2 protection. The purge system uses an automatic pressure switch to automatically trigger alarms in case of pressure loss.

Ideal for extreme environments, the VT900ESW industrial computer and its predecessors are currently in use in coal mines, rock quarries, oil rigs, chemical manufacturing plants and production floors which are located in Class 1, Division 2 environments. The VT900ESW is engineered for extremely rugged conditions, both indoors and out.



FEATURES

- ◆ Designed to Meet Class 1, Div 2
- ◆ Purge with automatic pressure system
- ◆ Water Proof
- ◆ Dust Proof
- ◆ Corrosion Resistant
- ◆ Extreme Temperature Proof
- ◆ Shock and Vibration Proof
- ◆ Built-in NEMA 4x Keyboard with pointing device
- ◆ Easy-access Interior
- ◆ LCD screen shielded by a Tempered Glass Protective Overlay

SPECIFICATIONS

Video

19" active matrix TFT LCD display, 350 nits, 1280 x 1024 SXGA, LCD screen shielded by a Tempered Glass Protective Overlay

Processor

2.16 GHz Intel Dual Core T3400 with a 667 MHz FSB

BIOS

Award PnP 4MB Flash ROM BIOS

O/S

Windows XP Professional (optional Windows XP Embedded)

System Memory

SO-DIMM DDRII 667/533/400 2 GB

Chip Set

Intel® GME965+ICH8M/EM

VGA

Intel® GME965 GMCH Gen4 integrated graphics engine

Hard Drive

320 GB SATA High Performance

PCI Expansion

Optional PCI Express
Optional 1 or 2 32 bit PCI Slots

Power Input

100-240VAC 1.5A 50/60 HZ

Power Connector

Standard Power Inlet (IEC320 C14)

Dimensions

20" W x 18" D x 11" H

DVD Drive (E-IDE / ATAPI)

DVD-R, DVD+R, DVD-RW, DVD+RW,
DVD-R DL, DVD+R9, CD-R, CD-RW

I/O Ports

2 RS-232 COM port
(Optional RS-422/485 port)
2 LAN ports
6 USB 2.0
2 Audio jacks

Firewire Ports

2 x IEEE 1394a

Enclosure

Easy-open, lockable door
NEMA 4x, 316 stainless steel
Anodized aluminum heat sink

Keyboard/Mouse

Industrial silicone rubber keyboard with integrated pointing device

Environmental/Thermal

NEMA 4x
waterproof and dust proof
-20°C to 55°C, IP67

Construction

Enclosure Only:
20" H x 24" W x 17" D, ~75 lb
Purge Kit Only:
15" (H) x 11" (W) x 7.5" (D), 15 lb
Unit with Computer: 96.8 lb
Shipping Weight w/ Computer: 117 lb

CONTACT

HEADQUARTERS

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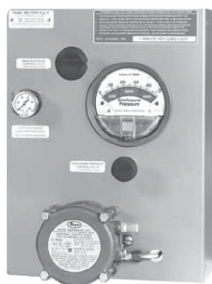
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OPTIONS

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

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

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**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 remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. 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

Alum. & Stainless Steel

Mounting Plate

316 14 Ga #3 Brush SS

EXP Pressure Switch Body

Anodized Cast Aluminum

Enclosure warning

Nameplate

Silk screened SS

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

Specifications

Weight

15lb

Temp. Range

-20F to 120F

Supply Pressure Range

80 - 120 psi

Capacity & Filtration

1.5 oz @ 20 Micron

Supply requirements

Clean air or inert gas

Safe Pressure Setpoint

.25"

Safe Pressure Flow Rate

0.1 - 3.5 SCFH - Enclosure integrity determines actual flow rate

Exchange Pressure

3" - 5"

Exchange Flow Rate

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

Exchange Time

1min/ft3

System Supply Port

1/4" FPT

Enclosure Supply Fitting

1/4" tube fitting

Enclosure Reference Fitting

1/4" tube fitting

Switch Setting (Decr)

.15" ± .02"

Switch Conduit Port Size

1/2" FPT

Switch Contact Rating

120 VAC, 15A

Dimensions

15" (H) x 11" (W) x 7.5" (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 enclosure power to be deenergized. The enclosure protection vent must be tested and the enclosure(s) must be sealed. The enclosure pressure control valve is then used to set a safe reading on the enclosure pressure indicator. When safe pressure is stable, the Rapid Exchange® control valve must be fully engaged. Upon completion of the Rapid Exchange® cycle, (5 minutes minimum) the Rapid Exchange® control valve must be disengaged to return to a safe enclosure pressure. Power can then be energized to the protected enclosure(s). Loss of safe pressure requires immediate attention, unless power is deenergized. The purge system includes an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

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