



15.0" Enclosed Purged Workstation for Class 2 Div 2 Environments



The VT502ESW is a NEMA 4X system designed to meet Class 2, Div 2 protection. The purge system uses an pressure switch to automatically trigger alarms in case of pressure loss.

Ideal for extreme environments, the VT502ESW 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 2, Division 2 environments. The VT502ESW is engineered for extremely rugged conditions, both indoors and out.

FEATURES

- ◆ Designed to Meet Class 2, Div 2
- ◆ Purge with 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

*Supports all VESA standard video formats

CONTACT

HEADQUARTERS

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SPECIFICATIONS

Display

15" active matrix TFT LCD display,
350 nits, 1024 x 768 XGA

Processor

2.16 GHz Intel Dual Core T3400 with
a 667 MHz FSB

BIOS

Phoenix-Award 16Mbit (SPI) with RPL/
PXE LAN Boot ROM, SmartView and
customer CMOS backup

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)

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

Enclosure

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

Construction

Enclosure Only:
20" H x 24" W x 16" D
Purge Only:
15" (H) x 11" (W) x 7.5" (D), 15 lb

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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