



Solutions for Demanding Applications

15.0" Enclosed Purged Workstation for Class 2 Div 1 Environments

The VT552ESW is a NEMA 4X system designed to meet Class 2, Div 1 protection. The purge system uses an automatic pressure switch to automatically trigger alarms in case of pressure loss.

Ideal for extreme environments, the VT552ESW 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 1 environments. The VT552ESW is engineered for extremely rugged conditions, both indoors and out.



FEATURES

- ◆ Designed to Meet Class 2, Div 1
- ◆ Purge 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
- ◆ Intrinsically Safe Keyboard and Pointing Device

SPECIFICATIONS

Display

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

Processor

T4500 2.30 GHz 800MHz FSB Intel Dual Core

BIOS

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

O/S

Windows XP Professional (optional Windows Embedded Standard)

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 Kit Only:
22" (H) x 11" (W) x 13.75" (D), 47 lb

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*Supports all VESA standard video formats

CONTACT

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OPTIONS

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

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



Purge System w/
Pressure Switch

X Type Purge System w/ Pressure Switch (Class 2, Div 1 Protection)

This Rapid Exchange® purging system 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. In addition, 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 & Bowl

Polycarbonate

Rapid Exchange Gauge

Aluminum w/ Enamel Finish

Tube Fittings & Valves

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.

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Specifications

Shipping Weight

38 lb

Temp. Range

-20F 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

Exchange Flow Rate

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

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 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 the air supply to be engaged and EPCU power to be 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 EPCU power control switch must be activated and the system will self-test. The enclosure pressure control regulator is then used to set a safe reading on the enclosure pressure gauge. In Class II Areas, power will energize shortly after safe pressure is stable. Loss of safe pressure causes the EPCU to de-energize power to the protected enclosure(s). All systems include form "C" contacts for audible or visual alarm systems.

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