



## 19.0" Enclosed Purged Workstation for Class 2 Div 1 Environments

The VT952ESW 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 VT952ESW 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 VT952ESW is engineered for extremely rugged conditions, both indoors and out.

### FEATURES

- ◆ Designed to Meet Class 2, Div 1
- ◆ 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
- ◆ Intrinsically Safe Keyboard and Pointing Device
- ◆ LCD screen shielded by a Tempered Glass Protective Overlay

\*Supports all VESA standard video formats

### CONTACT

#### HEADQUARTERS

11529 Sun Belt Ct.  
Baton Rouge, Louisiana 70809

**Phone** 800.223.8050

#### International

001.225.298.0300

**Fax** 225.297.2440

#### E-mail

sales@vartechsystems.com

#### Website

www.vartechsystems.com

### 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:*

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

### OPTIONS

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

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

# www.vartechsystems.com



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



**Purge System w/  
Pressure Switch**

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.

**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.

**www.vartechsystems.com**  
**Email: sales@vartechsystems.com**  
**Toll Free: 800.223.8050**