



Solutions for Demanding Applications

## 17" Purged Enclosed Computer for Class 2 Div 1 Environments



The VT752ESC is a NEMA 4X HMI system designed to meet Class 2, Div 1 protection. The purge system uses a pressure switch to automatically trigger alarms in case of pressure loss.

### Durable

The VT752ESC can easily handle the punishment of harsh computing environments. They are proven tough in real world applications such as industrial production areas, outdoor kiosks and public terminals.

The VT752ESC chassis has no external vents, so nothing can get under its skin, including 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.

### Easy Access

VT752ESC is designed with easy maintenance and up-grades in mind. A latched panel provides simple access to this NEMA 4X HMI system. With its moderate weight and dimensions, VT752ESC enables flexible mounting options.

## FEATURES

- ◆ Designed to Meet Class 2 Division 1
- ◆ Purged pressure switch
- ◆ NEMA 4x sealed enclosure
- ◆ Water proof and dust proof
- ◆ Stainless steel construction
- ◆ Easy latch access
- ◆ Hard-anodized aluminum heat sink
- ◆ Closed loop thermal cooling for high heat environments
- ◆ Flexible mounting options
- ◆ Optional Non-Incendive Keyboard/Mouse

\*Supports all VESA standard video formats

## SPECIFICATIONS

### Display

17", 1280 x 1024 SXGA

### Processor

Powerful T4500 2.30 GHz 800MHz FSB  
Intel Dual Core

### BIOS

Award PnP 4MB Flash ROM BIOS

### O/S

Windows XP Professional  
(optional Windows Embedded Standard)

### System Memory

SO-DIMM DDRII 667/533/400 2 GB

### Graphics

Integrated VGA Engine in chipset (Intel GMA 950)

### LAN

Integrated Intel Gigabit PCI Express LAN Chip

### Hard Drive

320 GB Fast Access Disk Drive

### 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

### Expansion Slots

Mini PCI x 1

### 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

1 Realtek ALC882 HD Audio CODEC  
PS/2 Keyboard Connector x 1  
PS/2 Mouse Connector x 1  
AC Adapter Connector x 1  
DVI Port x 1  
S-Video Out Port x 1  
COM Port x 1  
USB 2.0 Port x 4  
1394 Port x 1  
RJ45 LAN Port x 1  
Line In / SPDIF In x 1  
Speaker Out x 1  
MIC In x 1  
Center / Subwoofer x 1  
Rear Surround / SPDIF Out x 1  
Side Surround x 1

### Temperature

Operational: 5° - 55°C

### Construction

316 stainless steel  
Anodized aluminum heat sink  
10" handles  
IP67 - NEMA 4X, waterproof and dustproof

### Enclosure Only:

18" H x 20" W x 11" D  
66 lb

### Purge Kit Only:

20" (H) x 11" (W) x 10.5" (D), 38 lb

## CONTACT

### HEADQUARTERS

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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\*\***



## 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.

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