

VT702ESC



VARTECH SYSTEMS INC.

Solutions for Demanding Applications

17" Purged Enclosed Computer for Class 2 Div 2 Environments



The VT702ESC is a NEMA 4X HMI 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.

Durable

The VT702ESC 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 VT702ESC 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

VT702ESC 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, VT702ESC enables flexible mounting options.

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 XP Embedded)

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:

12"(H) x 8"(W) x 7.25"(D), 10 lb

OPTIONS:

Windows XP Embedded

FEATURES

- ◆ Designed to Meet Class 2 Division 2
- ◆ 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

CONTACT

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



Purge System w/
Pressure Switch

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

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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