



Solutions for Demanding Applications

19" Purged Enclosed Computer for Class 1 Div 2 Environments



The VT900ESC is a NEMA 4X HMI system designed to meet Class 1, Div 2 protection. The purge system uses an automatic pressure switch to automatically trigger alarms in case of pressure loss.

Durable

The VT900ESC 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 VT900ESC 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

VT900ESC are 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, VT900ESC enables flexible mounting options.

FEATURES

- ◆ Designed to Meet Class 1 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
- ◆ Medium footprint
- ◆ Flexible mounting options
- ◆ Non-Incendive Keyboard/ mouse optional
- ◆ LCD screen shielded by a Tempered Glass Protective Overlay

*Supports all VESA standard video formats

SPECIFICATIONS

Display

19", 1280 x 1024 SXGA, LCD screen shielded by a Tempered Glass Protective Overlay

Processor

1.73GHz Intel Pentium Core Duo (Dual-Core) Mobile Processor T2080

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

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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 (Class 1, Div 2 Protection)



Purge System w/
Pressure Switch

Enclosure pressurization or 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. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. 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

Polycarbonate

Enclosure Pressure Gauge

Alum. w/ Enamel Finish

Tube Fittings

316 SS Forged Body

Tubing

316 SS 1/4" .035 Welded

System Nameplates

Silk screened Lexan® & SS

Fastener Hardware

Alum. & Stainless Steel

Mounting Plate

316 14 Ga #3 Brush SS

EXP Pressure Switch Body

Anodized Cast Aluminum

Enclosure warning

Nameplate

Silk screened SS

Lexan® is a registered trademark of the General Electric Company.

Specifications

Weight

10lb

Temp. Range

-20F to 120F

Supply Pressure Range

5 - 120 psi

Supply requirements

Clean air or inert gas

Safe Pressure

.25"

Safe Pressure Flow Rate

.1 - 3.5 SCFH - Enclosure integrity determines actual flow rate

System Supply Fitting

1/4" tube fitting

Enclosure Supply Fitting

1/4" tube fitting

Enclosure Reference Fitting

1/4" tube fitting

Switch Setting (CI, Decr)

.15" +- .02"

Switch Conduit Port Size

1/2" FPT

Switch Contact Rating

120 VAC, 15A

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 deenergized. In Class I areas, the user must perform an exchange cycle (determined by the safe pressure flow rate—five minutes minimum) before power can be energized. Loss of safe pressure requires immediate attention, unless power is deenergized. The purge system includes an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.



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