DET-TRONICS

DESCRIPTION

As part of Detector Electronics Corporation's (Det-Tronics®) commitment to providing a variety of system solutions, the model GP16XX Gas Panel is an economical and pre-configured solution that is packaged to meet global performance approvals. The Eagle Quantum Premier® (EQP) system components, within the GP16XX, are approved for life safety to monitor low concentrations of combustible and toxic gas hazards.

A maximum of 16 detection points are available with the GP16XX, with flexibility to communicate via analog 4-20 mA and / or digital LON (Local Operating Network). The enclosure houses an Eagle Quantum Premier® (EQP) system controller (pre-configured with S^3 software and logic), a power supply, Ground Fault Monitor, and optional Analog Input Module (AIM).

The GP16XX is equipped with a Pro-face® Human Machine Interface (HMI) touch screen that communicates to the controller through Modbus protocol. System setup and operation is performed through the HMI touch screen, with real-time status indication of gas levels, alarms, faults, and calibration.

FEATURES AND BENEFITS

- Compliance to ANSI/ISA 12.13.1-2000 (Combustible), ANSI/ISA 92.0.01-1998 (Toxic), FM 6310/6320, CSA 22.2 No. 152, and EN 60079-29-1
- Utilizes Eagle Quantum Premier (EQP)
- Economical and reliable
- 16 gas detection points available
- Communication flexibility (4-20 mA and/or LON)
- User friendly HMI touch screen
- Real time alarm, fault, and calibration indication
- Quick set up
- Electronics and wiring tested at the factory
- User defined alarm setpoints
- Sounder on panel
- Customized services available.

System Components

- EQ3XXX – EQP Controller (included)
- EQ3710AIM – Analog Input Module (optional, up to 2)
- Pro-face Human Interface Machine (HMI) – Included
- EQ2220GFM – Ground Fault Monitor (included)
- Power Supply – 24 Vdc, 10A output (included).

Compatible Field Devices

- PIRECL – PointWatch Eclipse® (ECLIPSE)
- UD10-DCU – FlexVu® Universal Display
- EQ22XXDCU/DCUEX – Digital Communication Unit
- Any 4-20 mA device (via the Analog Input Module).

Operating Voltage   120-220 Vac input, 24 Vdc @ 10A output.

Components   EQ3XXX, EQP Controller
EQ3710 AIM Analog Input Module (Optional)
EQ2220 GFM Ground Fault Monitor
5.7" Human Machine Interface (HMI)
120-220 Vac input, 24 Vdc @ 10A output Power Supply.

Temperature Range   <u>Operating</u>:   +32°F to +122°F (0°C to +50°C)
<u>Storage</u>:   −4°F to +140°F (−20°C to +60°C).

Humidity Range   10 to 95% RH, non-condensing.
(Instrument only)

Weight   26.5 pounds (12.0 kg) to 28.5 pounds (13.0 kg),
depending on configuration.

Enclosure   Finish: ANSI 61 Gray
Door: 16 Gauge Steel
Body: 18 Gauge Steel.

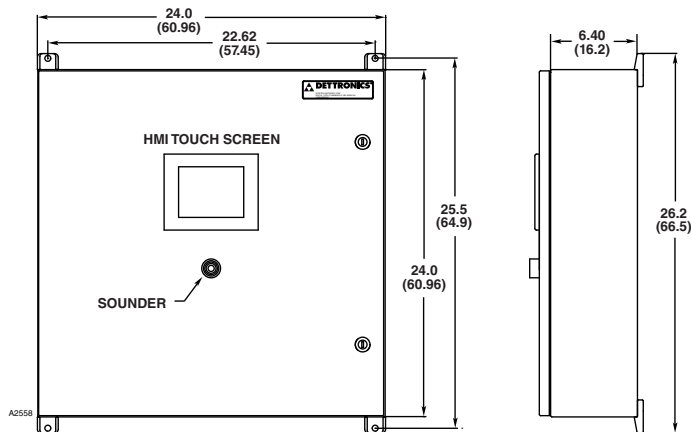**Dimensions**   See Figure 1.

Figure 1–Dimensions of GP16XX in Inches (Centimeters)

Certification

Certification of the system's components:

<u>EQ3XXX EQP</u>

FM/CSA: Class I, Div. 2 Groups A, B, C, D (T4)

ATEX/CE: ⟨Ex⟩ II 3 G
Ex nC IIC
EN 60079-29-1

IECEx: Ex nC IIC

<u>EQ3710 AIM</u>

FM: Class I, Div. 2 Groups B, C, D (T4)
Class I, Div. 2 Groups A, B, C, D (T4)
Gas Performance certified

CSA: Class I, Div. 2 Groups A, B, C, D (T4)
Gas Performance certified

ATEX/CE: ⟨Ex⟩ II 3 G
Ex nA nL nC IIC
EN 60079-29-1

IECEx: Ex nA nL nC IIC

<u>EQ2220 GFM</u>

FM/CSA: Class I, Div. 2 Groups A, B, C, D (T4)

ATEX/CE: ⟨Ex⟩ II 3 G
Ex nC IIC

IECEx: Ex nC IIC

<u>HMI</u>

UL: Class I, Div. 2 Groups A, B, C, D (T4)

ATEX/CE: Ex nA nC IIC

System performance compliance in ordinary locations to:

ANSI/ISA: 12.13.01-2000, 92.0.01-1998

FM: 6310, 6320

CSA: 22.2, No. 152

ATEX/CE: EN 60079-29-1

NOTE: When a non-certified stand alone detector is used with the GP16XX, the output from that device is **not** a certified function (when connected to AIM Module).

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