

## Polytron 2 XP Ex Installation Instructions

Any use of the transmitter requires full understanding and strict observation of the Polytron 2 XP Ex “Operating Manual” (part number 4543040).

### Installation of the Transmitter

The transmitter shall be mounted vertically (sensor pointing downwards) - at a location with little vibration and stable temperature. The transmitter should be located in an area where a gas leak is most likely to occur.

Use the holes in the transmitter housing to mount the transmitter (see drilling template). For maintenance purposes, leave at least 12 inches (30 cm) of space below the transmitter.

### Installation of Electrical Connections

For installation in multi-drop mode, please refer to Polytron 2 XP Ex operating manual.

To connect the transmitter to the controller, use 3 conductor braid shielded cable (16 to 22 AWG). Keep the length of shielding cable as short as possible. Connect the wires to the terminals as indicated on the label. For a current range from 0 to 22 mA, the supply voltage (measured at the transmitter) must be between 10 and 32 V DC.

### Technical Data

Measuring range ..... 0 to 100% LEL

Signal transmission to controller

Analog ..... 4 to 20 mA plus status information

Digital ..... HART®, RS 485

Power supply ..... 10 to 32 V DC

Electrical

connection ..... 3 conductor cable (plus shield)

Wire cross-section 16 to 22 AWG (0.5 to 1.5 mm<sup>2</sup>)

Cable inlet ..... 3/4" NPT female conduit entry

Explosion protection ..... see transmitter label

Considerable thought must be given to every detail of installation, particularly:

- The local, state, federal codes and requirements that govern the installation of gas monitoring equipment.
- The electrical codes that govern the routing and connection of electrical power and signal cables to gas monitoring equipment.

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