PIM

PORT-1 INTERFACE MODULE

The Port-1 Interface Module (PIM) provides a direct interface between the Traficon VIP3D.x series video detection solution and any NEMA TS-2 compliant Controller Unit. The PIM gathers presence data directly from the VIP3D units and does not require the use of the Viewcom/E MAX module. For systems that include a Viewcom/E MAX unit for remote monitoring, the PIM will communicate to the VIP3D.x units using the Viewcom/E MAX Service port.

The PIM completely eliminates the need for I/O expansion boards and occupies only a single width slot of the detector rack. The PIM is configured to emulate the operation of TS-2 Detector Bus Interface Units (BIU) 1 through 4 in any combination, providing up to 64 channels of detection.

The PIM is compatible with detection racks for NEMA TS-2, NEMA TS-1, and Caltrans 33X cabinets, when a TS-2 compliant Controller Unit is present.

PIM FEATURES

NEMA TS2 Standard: The PIM interfaces to a NEMA TS-2 compliant Controller Unit via the Port 1 interface using standardized TS-2 Detector BIU frames.

Channel Capacity: The PIM supports up to 64 channels of detection from up to eight VIP3D.x units.

User Interface: The PIM requires minimal setup during installation and automatically identifies installed VIP3D.x units. Front panel displays include Power, VIP3D Online status, Status, VIP Rx/Tx communications activity, Viewcom/E Rx/Tx communications activity, and Port 1 Rx/Tx communications activity.

VIP3D.x Compatibility: The PIM can operate with up to eight VIP3D.x units with or without a Viewcom/E MAX unit.

Controller Interface: The PIM synchronizes the VIP3D.x real time clocks with the Controller Unit and passes controller phase colors to the VIP3D.x units. Failsafe mode transmits video fault conditions to the Controller Unit.

NEMA TS-2 Environmental: The PIM meets the requirements of NEMA TS-2 Section 2 (Environmental Requirements) and operates over the full -34°C to +74°C temperature range.

PC Monitoring Tool: The Windows PC based *PIMSnoop* program allows independent monitoring of the PIM operation; displaying detector channel calls, VIP3D online status, and channel fault status in real time.

DC Power: The PIM is able to operate from 10.8 Vdc to 28.8 Vdc making it compatible with all rack types. The PIM is completely hot swappable.

Mechanical: International Detector Card format 4.5"H (114.30mm) x 6.875"D (174.63mm) x 1.14"W (28.96mm), excluding handle, with 44 pin double sided edge connector.

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