Overview

The Peek Traffic TS2 NEMA Bus Interface Unit (BIU) is a rack mounted modular-by-function unit that allows easy adaptation to many applications.

Its primary function is to interface the 24 VDC logic based inputs and outputs (I/O) to the Synchronous Data Link Control (SDLC) serial bus within the TS2 cabinets.

The Controller Unit functionality in a Type 1, and some Type 2 configurations, is interfaced to the TS2 cabinet through the BIU(s).

This functionality includes controlling:
- all load switch outputs,
- detector inputs and resets, and
- functions previously accessed via TS1- A,B,C connectors and/or additional I/O (MSD).

The BIU is in full compliance with NEMA TS2 Standards for the interface, power, environmental, electrical and physical hardware requirements.

The BIU is powered by a separate 24 VDC power supply external to the Controller Unit.

The front panel contains:
- a handle for easy removal and insertion of the unit,
- power on and transmit status indicators,
- a 15 pin female Port-1 connector.

The BIU interface to Port-1 facilitates termination of the panel through a 15 pin metal shell D sub miniature type connector that is equipped with latching blocks. Connection to the Terminal and Facilities (TF) back panel or card rack is provided by a 64 pin DIN 41612 type B series connector.

The TS2 Controller Unit communicates through the BIUs based on the digital addressing of each BIU. Each BIU shall be capable of having their logical position and subsequent cabinet functions, assignable through specific address select inputs. This cabinet function flexibility allows for cabinet expansion, enhances reliability and provides a standard interface with Peek Traffic or other manufacturers' TS2 cabinets.
Features

- Full compliance with NEMA TS2-2003
- Port-1 RS-485 SDLC interface
- Facilitates high speed data exchange between controller, cabinet, detector racks and malfunction management unit
- Performs conversion for 24VDC I/O logic signals to serial bus
- Rack mounted for modularity and interchangeability
- BIU address programmable via Terminal and Facilities

Specifications

Signal Inputs
Each BIU provides:
- 8 DC inputs,
- 4 opto isolated inputs,
- 24 assignable input/output pins,
- 15 DC outputs and
- 4 address select inputs

Isolated Inputs
Four optically isolated inputs for use with pedestrian detector inputs or remote hardwired interconnect inputs.

120VAC interconnect inputs are interfaced through external 27K Ohm, 1 Watt resistor

Dimensions
4.5" H x 2.34" W x 6.5" D
(114.3 mm H x 59.44 mm W x 165.1 mm D)

Temperature
-30°F to +165°F
(-34°C to +74°C)

Weight
0.525 lb. (0.283 kg)

Power
18V/60mA - 24V/40mA

Ordering Information

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<th>Model Number</th>
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