



BIU-700

NEMA TS-2 BUS INTERFACE UNIT

The BIU-700 Bus Interface Unit (BIU) performs the interface between Port 1 of the Controller Unit and the Loop Detector Racks, Terminals and Facilities, and other devices in a NEMA TS-2 Cabinet Assembly. Its functions include controlling load switch outputs, detector resets, communicating with Inductive Loop Detectors and other devices, and the conditioning and conversion of Terminals and Facilities and Loop Detector call inputs for the Controller Unit.

The EDI BIU-700 is compatible with all Controller Units and Cabinets compliant with the requirements of NEMA Standard TS2-2003.

Each EDI BIU-700 is put through a vigorous three part Total Quality Assurance program and tested under the extreme environmental conditions experienced on the street. It is this commitment to quality and performance that EDI products are known for, providing years of trouble free operation.

Model Options:

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| BIU-700 | Standard product (BIU Configuration) |
| BIU-700H | Half Width product (BIU Configuration) |

BIU-700 OPERATIONAL FEATURES

- Basic Functions:** The BIU-700 Bus Interface Unit meets or exceeds all requirements of the NEMA Standard TS2-2003 for the BIU configuration.
- Display Indicators:** Separate Power, Receive, and Transmit LED indicators display DC power status and SDLC Port 1 status.
- Input / Output Pins:** Signal I/O Configuration:
- ✓ 15 DC Output pins
 - ✓ 24 Programmable Input / Output pins
 - ✓ 8 DC Input pins
 - ✓ 4 Optically isolated input pins
 - ✓ 1 Line Frequency Reference input pin
 - ✓ 4 Address Select input pins
- Output Drivers:** All outputs are rated at 150mA continuous sink current. Each output provides a 500mA typical current limit. Outputs are rated to 50 volts and utilize a voltage clamp for inductive transient protection.
- Isolated Inputs:** Four optically isolated inputs provide isolation for Pedestrian Detector and Remote Interconnect inputs. These inputs are intended for direct connection to 12 Vac from the cabinet power supply for Pedestrian Detector applications. They may also be connected for 'Low True' DC applications when the Opto Common pin is connected to a 24Vdc supply.
- NEMA BIU2 Support** The BIU-720, BIU-730, and BIU-740 models can be configured to meet the BIU2 configuration as defined by TS2-2003, clause 8.3. These models provide detector rack communication capabilities plus an optional front panel EIA-232 or Ethernet communication port. Consult the factory for details.

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