## Specifications:

| ProtoNode | Interface Connections | | | | | | | Point Count | | | Certifications | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RS-232 | RS-485 | RS-422 | Ethernet | LonWorks | KNX | M-Bus | Level I | Level II | Level III | BTL | LonMark | KNX |
| FPC-N34 | | 2 | | 1 | | | | 1500 | 5000 | 10000 | Yes | | |
| FPC-N35 | | 1 | | 1 | 1 | | | 1500 | 5000 | 10000 | Yes | Yes | |
| FPC-N36 | | 1 | 1 | 1 | | | | 1500 | 5000 | 10000 | Yes | | |
| FPC-N37 | | | 1 | 1 | 1 | | | 1500 | 5000 | 10000 | Yes | Yes | |
| FPC-N38 | 1 | 1 | | 1 | | | | 1500 | 5000 | 10000 | Yes | | |
| FPC-N39 | 1 | | | 1 | 1 | | | 1500 | 5000 | 10000 | Yes | Yes | |
| FPC-N40 | | 1 | | 1 | | 1 | | 1500 | 5000 | 10000 | Yes | | Pending |
| FPC-N41 | | | | 1 | 1 | 1 | | 1500 | 5000 | 10000 | Yes | Yes | Pending |
| FPC-N42 | | 1 | | 1 | | | 1 | 1500 | 5000 | 10000 | Yes | | |
| FPC-N43 | | | | 1 | 1 | | 1 | 1500 | 5000 | 10000 | Yes | Yes | |

### Power Requirements

Power: 9-30 VDC or 12-24 VAC
(RS-422 = 15-30 VDC or 12-24 VAC)

Current draw @ 12V

- RER @ 12V = 240 mA
- LER @ 12V = 250 mA
- FPC-N36 @ 15V = 200 mA
- FPC-N37 @ 15V = 210 mA

M-Bus

- Slave: 550 mA @ 12V
- Master (1 Slave): 580 mA @ 12V
- Master (64 Slave): 980 mA @ 12V

### Environmental

Operating Temp.: -40°F to 167°F (-40°C to 75°C)
Relative Humidity: 5-90% RH, non-condensing

### Enclosure

Dimensions: 4.5 x 3.2 x 1.6 in. (L x W x H)
(11.5 x 8.2 x 4.0 cm)

### Warranty

Warranty: Two years return to factory

### Approvals

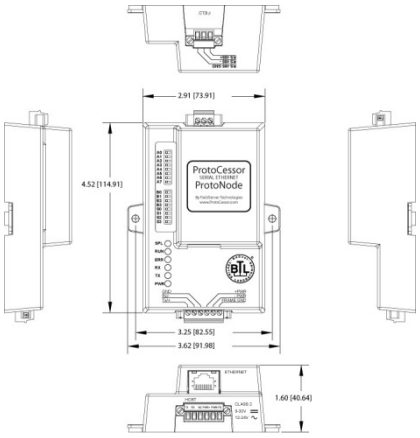
- BACnet Testing Labs (BTL) B-ASC
- LonMark 3.4 Certified - ProtoNode LER Series
- TUV approved to UL 916 EN 60950-1, EN 50491-3 and CSA C22-2 standards
- RoHS Compliant
- DNP3 Conformance Tested
- CE & FCC Approved

### BACnet Support

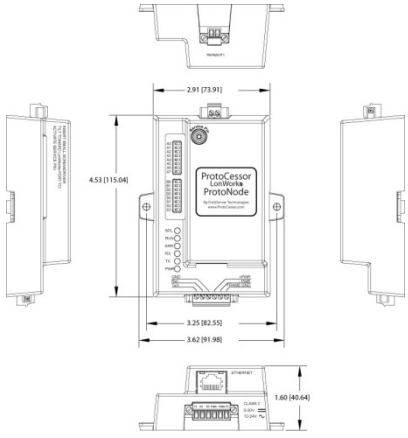
- Alarm & Event notification read properties multiples, and more (see PICS)
- BACnet COV's, 20,000
- Support up to 2,000 Host & Field points
- DIP switches are for setting MAC Address, Node-ID, Baud Rate on the RS-485 Field protocol

### LonMark Certification on the ProtoNode LER

- SPID: 80:00:95:46:00:84:04:07
- Profiles: 0000 - Node object (1)
  0001 - Open Loop Sensor Object (5)
  0003 - Open Loop Actuator Object (5)




**ProtoNode RER Outline Dimensions**




**ProtoNode LER Outline Dimensions**

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