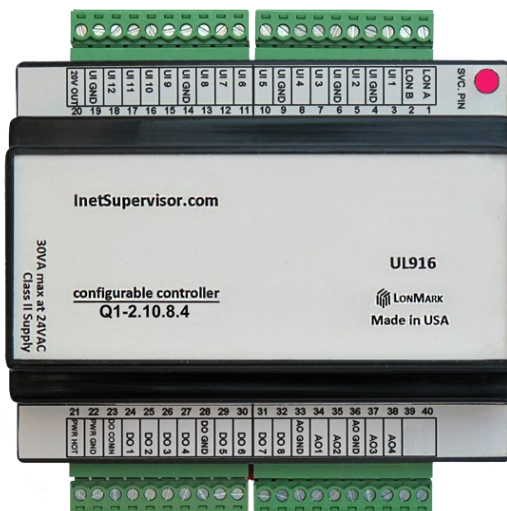


APPLICATIONS

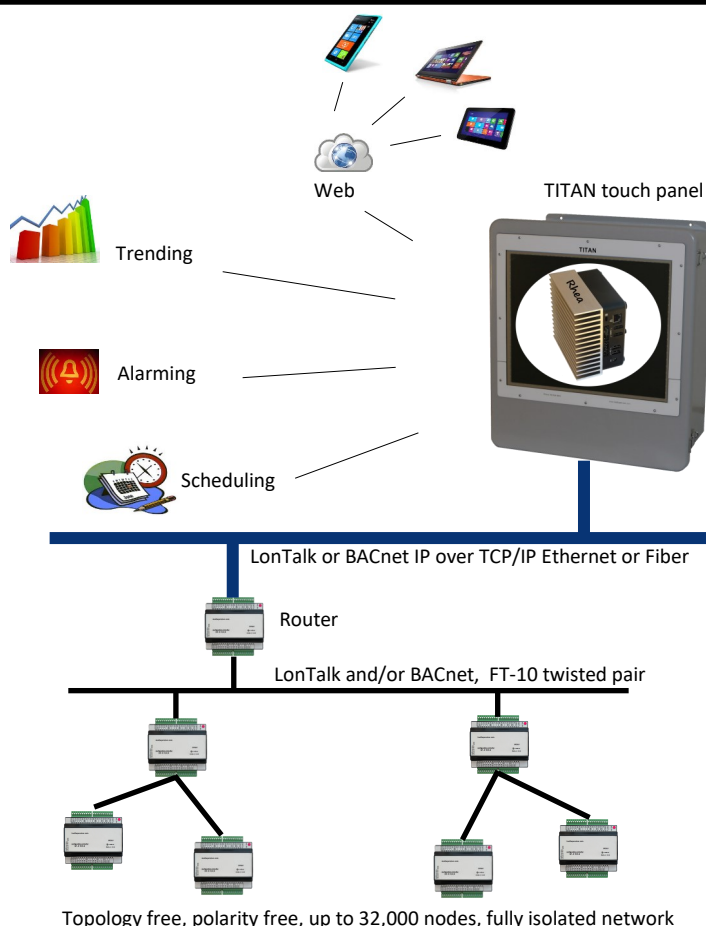
Universal dumb I/O, best used with other programmable controllers.



OVERVIEW

The NS-8.8 I/O Series are microprocessor based configurable I/O controllers designed to control, optimize and improve energy efficiency of variety of equipment. All controller features are adjustable with DeviceEditor (part of NetworkManager) software that is free to our customers. The NS-8.8 uses FT-10 transceiver for best in its class networking over twisted pair of wires. FT-10 networks are polarity and topology free. The network utilizes open standard LonTalk and BACnet/IP protocols for interoperability and ease of data exchange.

NS-8.8 supports variety of sensors including thermistors Type II (recommended), and Type III, and custom thermistor array. 4-20mA sensors are well supported with external 20VDC supply. All sensors types are software configurable. Two inputs accept pulse and have software pulse accumulators.



| I/O CONFIGURATION | | MECHANICAL | |
|--|--|--------------------|-------------------------------|
| NOTE: No Hardware Jumpers required to configure I/O | | Hardware | |
| 8 x Universal Inputs | All inputs have 12 bit resolution | Processor | FT-5000, 8bits, 80MHz |
| Resistive | Thermistor 10KΩ Type II and Type III (Type II is recommended) | Memory | 48k application memory |
| | Potentiometer with custom scaling | Transceiver | FTT-10; 78kbps |
| | Dry contact | Indicators | Multicolor LED, power, status |
| Voltage | 0-10V DC | Comm Ports | RJ11, LON, TTL |
| Current | 0-20mA DC | Power | |
| 6 x Digital Outputs | Solid State Relays | Supply Voltage | 24VAC; 50/60Hz; Class II |
| 2 x Analog | SSR rated at 130mA @ 50V AC/DC w/ external power supply | Max | 30VA |
| | 20mA max at 30°C, 8bit resolution | Typical | 6VA plus peripherals |
| | 0 or 10VDC Digital / Binary | Fuse | 1.85A auto-resettable |
| 0-10V DC adjustable , linear | | Enclosure | |
| | | Material | ABS |
| | | Color | Black |
| | | Installation | 35mm DIN |
| | | Connectors | Removable (RED) |
| | | Environment | |
| | | Temperature | 0°-70°C (32°-158°F) |
| | | Humidity | 0-90% non-condensing |
| | | Storage | -20°- 70°C (-4° - 158°F) |

| STATUS LIGHTS | |
|---------------------|---|
| LED | |
| Device status GREEN | Pulsing green = Normal Off = No power or other fault |
| Service pin GREEN | OFF = Normal, running ON = No application |

| AGENCY APPROVALS | |
|-----------------------|---|
| Safety Certifications | UL916 Energy Management Equipment CSA C22.2#205 Issue 1983/06/01 (R2009) Signal Equipment standard |

Top View Dimensions:

- Total Width: 87.5 (3.4in)
- Internal Width: 61
- Internal Width: 47
- Total Height: 58.5
- Internal Height: 45.5
- Internal Height: 36
- Internal Height: 17
- Mounting Hole Spacing: 35.5 (1.4in)

Front View Dimensions:

- Total Width: 106.5 (4.19)
- Internal Width: 102.5
- Internal Width: 85.5
- Total Height: 83.5
- Internal Height: 50.5