

## R-1820 TetraNode Light Stack

### General Description

The TetraNode I/O interface controls up to four relays to indicate the status of an equipment cabinet containing TetraNode core and base station components.

The alarm information is transferred to the TetraNode I/O interface by means of Simple Network Management Protocol version 2 (SNMPv2) traps generated by the TetraNode eXchange (TNX).

The relays can be used to control a "light stack" with a green, orange and red lamp, indicating respectively a "good", "warning" or "failure" status. With a Optional 80 dB sounder Blue light indicates that the Base station is connect to the TNX.

The configuration of the TetraNode I/O interface is generic, also providing support of selected SNMPv2 traps from non-TetraNode equipment.

### Additional Details

The TetraNode I/O interface is supplied in a DIN rail compatible enclosure. The unit supports wide-range DC power supply voltages by means of two inputs for redundancy. Also two Ethernet ports are provided, configured as a "bonded IP interface" for simple and reliable redundancy switchover. Four make and break relay outputs are available, of which three relays are controlled by the firmware of the TetraNode I/O interface box for indicating the alarm status by means of a light stack, and one for spare applications. The TetraNode I/O interface can be remotely configured and operated by means of an integrated web server, allowing configuration and monitoring of the unit by any PC or mobile device using a web browser. Access is protected by means of an administrator password.

Four views are defined for monitoring and configuration:

- The **Alarm** view provides an overview of active warnings and failures that are received by means of SNMPv2 traps. These message remain visible until cleared by another SNMP trap indicating recovery from the alarm condition.
- The **Traps** view allows analysis SNMP traps. The structure and content of all received SNMP traps is shown, allowing further extension and debugging of the current SNMP configuration.
- The **Configuration** view allows viewing and uploading of the SNMP alarm configuration file. The Extended Markup Language (XML) based definitions within the SNMP alarm configuration file allow translation of complex numerical based Object Identifiers (OIDs) into a description in plain text together with a severity level (Warning or Error). This information is then shown in the Alarm view and is used to control the relays.
- The **Network** view allows changing of the IP configuration of the TetraNode I/O interface. Both static IP and DHCP network configurations are supported. Also the administrator password may be changed from this view.



### Key Features

- DIN rail compatible enclosure
- Redundant power supply inputs
- Redundant Ethernet connections
- Control of standard three-color light stacks
- Flexible SNMP alarm configuration, supporting both TetraNode and non-TetraNode equipment
- Translation of SNMP traps with complex OID structures into plain text with severity level
- Platform independent configuration management and operation by means of any modern web browser
- Controlled powerdown
- Configured for (TIG ) inputs or outputs
- LED stackable light and sound modules
- Link status indication

## Technical specifications

### Functionality

- Parsing of complex OIDs for conversion of SNMPv2 traps into plain text, alarm status and severity level
- Control of three relays for indicating overall alarm status "Good", "Warning" or "Failure"
- Remote configuration and operation by means of a web browser
- 4 outputs

### IP connectivity

- IP network Ethernet 10/100 Mbps
- IP configuration Static IP address or DHCP
- IP redundancy Two ports, operating as "bonded IP interface"

### Relay contacts

- Relay configuration SPCO (NC, COM, NO)
- Maximum voltage across relay contacts 160 V<sub>DC</sub>
- Maximum current through relay contacts 3 A

### Power supply

- Power supply voltage +8 to +32 V<sub>DC</sub>
- Power consumption 6 Watts (maximum)
- Power supply redundancy Two ports for independent power supply sources

### Mechanical

- Dimensions (W x D x H) 169 x 107 x 46 mm
- Weight 0,55 kg

### Environmental

- Operating temperature -20 to 60 °C
- Storage temperature -40 to 85 °C
- Humidity < 95% at +40 °C, non-condensing

## Ordering specifications

### Deliverable system

- S-1800-Output interface
- S-TE LED Microstack (Blue, Green, Amber, Red)
  - PRE-F-4-024 ( 24 VDC/AC)
  - PRE-F-4-120 ( 120 VAC )
  - PRE-F-4-240 ( 240 VAC )

### Accessories

- MPZ56E Sounder, 24 VDC/AC to 240 VAC 80db
- MAM-DS30 Wall mount bracket
- MAM-DS25 L wall mount bracket
- MAP -24 or 75 cm Pole with M20 nuts



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# TetraNode Mission Critical Communications