

Data sheet:

## Trap-Receiver 2x2 Digital I/O



Article no.: 57656

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### Network monitoring

The Trap Receiver from W&T allows you to monitor events on the network. When the device receives an SNMPv1 trap or syslog message, a defined action takes place. You can for example switch 2 consumers locally. The outputs can be configured as a pulse output to use the Trap Receiver as an external software watchdog.

## Properties

### Interfaces:

- **Network connection**
  - 10/100BaseT autosensing, RJ45
- **2 digital outputs in 6V-30V industry standard for local alarm issuing**
  - Externally powered: max. 500mA per output
  - Alternatively FET current sourcing, max. 150mA total
  - Short-circuit-protected by virtue of thermal safety fuse
  - Configurable self-holding
- **2 digital inputs in industry standard usable as acknowledgment input**
  - Type 1, current sinking in accordance with IEC 1131-2
  - Protected against polarity reversal
- **Galvanic isolation between the ports**
  - Isolation voltage 1kV

### Management and connectivity:

- **Web-based management**
  - Configuration of the system parameters
  - Self-refreshing view of the actions, input and output states
  - Acknowledge pending alarms from the browser
  - Define activation conditions for max. 12 actions
- **12 freely configurable actions**
  - Trigger when configured events occur
  - Monitor up to 1000 network events
  - Report options: email, SNMPv1 trap, UDP and TCP client, syslog messages, FTP
  - Optional acknowledgement via digital input or from the Web interface
- **SNTP time server**
  - Current time information is passed using SNTP (Simple Network Time Protocol)
  - Service provider for any requesting network station
- **Online Web interface language selection**
  - Deutsch
  - English

### Power supply:

- **PoE (Power over Ethernet)**
  - Phantom power using data pairs
  - Power provided by unused wire pairs (spare-pair power)
- **Using external power supply**
  - Supply from external power supply possible as an alternative to PoE

### Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance for industrial environments
  - Low noise emission for residential and business areas

- 5 year guarantee

♥ Wish for something!  
Your suggestions for improvement and additions

## Worth knowing

### Example applications

#### Small System

The integrated Web server can be used to configure the Trap-Receiver directly from the browser. It is also possible to monitor the selected events and acknowledge pending messages using the Web interface. Other functions, such as reporting via email, allow out-of-the-box implementation of autonomous applications.

#### Big System

Standard protocols and interfaces such as OPC, SNMPv1 and SYSLOG enable trouble-free integration into existing systems. The digital output can be used to report events (faults, limit violations) to already existing automation devices having digital inputs.

### Application possibilities

#### Receive SNMPPv1 traps and syslog messages, switch on-site, inform over the network:

The Trap-Receiver receives alarms and messages from the network via SNMPv1 and SYSLOG. 12 actions can be defined for responding to messages or alarms from the network. In addition, changes on the input terminals and even self-definable buttons can be selected as an In-Event, for example to clear an alarm, set an output or send messages. Switch an output (also with self-holding) or send a message over the network, e.g. via e-mail, TCP or SNMPv1 trap. The Trap-Receiver also offers an SNTP service which can be used to obtain the current time information for any network station.

#### Trap-Receiver as external software watchdog enables safety applications:

In safety-critical applications the Trap-Receiver can also be set up as an external watchdog. Send an SNMPv1 trap to the Trap-Receiver every minute for example using your PC program or network device to turn on the local output. This output remains continuously active during triggering. Only if the trap is not present for 3 minutes, for example, is the output turned off. By implementing a feedback to a device input you can also send an alarm using the above mentioned network services.

The actions and status of the terminals can be monitored directly from the browser.

Perform acknowledgements via mouse click directly in the Web interface.

2 local digital inputs available (e.g. emergency stop buttons, switches).

2 local digital outputs available (e.g. horn, indicator lamp).

Status representation is self-refreshing and therefore always up-to-date.

## Technical data

### Connections and displays:

Network:	10/100BaseT autosensing, RJ45 IPv6 on request
Adapters:	2x screw terminal for power (alternative to POE) 6-point screw terminal for IOs
Digital outputs:	Short-circuit protected, configurable: 2 x Digital Out 6V-30V, 500mA or current sourcing 150mA total
Digital inputs:	2 x Digital In max. input voltage +/-30V protected against reverse connection within this range Switching threshold 8V +/- 1V "On" current = 2.2 mA
Actions:	12 actions for local and/or remote messaging
Response times:	Data and switching traffic: typically 12 ms
Galvanic isolation:	Digital-IO's - network: min. 1kV
Power supply:	Power-over-Ethernet (PoE) or via screw terminal with DC 18V-48V (+/-10%) and AC 18Veff-30Veff (+/-10%)
Current consumption:	approx. 100mA@24V
Displays:	1 LED for network connection status 1 LED for current IO status 1 LED for device status

### Housing and other data:

Enclosure:	Plastic housing for DIN rail mount 105 x 75 x 22mm (L x W x H)
Enclosure rating:	IP20
Weight:	approx. 140g
Ambient temperature:	Storage: -25..+70°C Operation: 0..+60°C

Scope of delivery: Trap-Receiver 2x2 Digital PoE incl. action management software  
Quick Guide  
W&T product CD



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