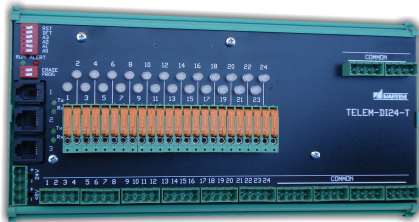


TELEM-DI24-T digital input RTU module



The TELEM family RTU module TELEM-DI24-T with 24 digital inputs is used for acquisition digital signals or counter pulses. Module bases on 32-bit ARM CPU. Interfaces to other equipment are RS-232 or RS-422. Data exchange protocol IEC 60870-5-1-101. Time synchronization is possible with synchronization pulse through GW6 device and over protocol.

Features

- Time synchronization with 1 ms accuracy
- 2 level input filters Buffer depth for each time tagged input is 20
- Logical operations with inputs
- Leased line or dial-up mode operation, data GSM communication request by event in substation or by remote control centre
- Configuration / parameterization with IEC protocol at the same line with data communication
- Daisy- chain master – slave connection for up to 15 same type modules using RS- 422 interface and up to 45 different type modules
- Self diagnostics and supervision simultaneously with data acquisition

Technical data

Number of digital inputs	24
Indication	1 for every input, 1 for running indication, 1 for alert indication
Built in clock with backup capacitor	Yes

Power requirements

Supply voltage	9-30 V DC, 4 VA
Isolated input circuit voltage	48V DC, 20 VA; optional 110V DC, 50VA

Installation, terminals and environment

Weight	495 g
Mounting	DIN 35
Dimensions (WxHxD)	250 x 125 x 60
Terminals for signal	MVSTBWA 2,5/4-ST
Terminal for power	MVSTBWA 2,5/4-ST
Terminal for communication	RJ4/4 (RS232); RJ12 (RS422)
Over voltage protection	IEC-60255-4, 5 kV pulse protection IEC-60255-5, 2 kV DC on
Disturbance	IEC-61000-3-2, 61000-6-2, 6100-6-4
Ambient temperature in operation	-20...+50°C

Configuration

Configuration of TELEM-DI24-T is configured using **TELEM 2000** software. All 24 digital inputs are configured independently.

Communication port's configurable parameters and general settings

Communication speed	200 - 115200 bps
Link Address	1 - 255
ASDU address	1 - 255
Object's base address	0 - 65500
Communication mode	Online
Time synchronization enabled	Yes
Buffer depth for each time tagged digital input	20

Configuration parameters for digital inputs

General

In use	Yes/No
Single- or double signal or counter input	Single/Double/Counter
Time tagged	Yes/No

Debouncing filter

Tolerant phase (A period of time during which changes of state are permitted and ignored on a digital input signal)	1 - 255 ms
Intolerant phase (A period of time during which the state of a digital input must remain constant)	1 - 255 ms

Chatter filter

A facility that is used to disable a digital input point if the number of state changes of that point during a defined time interval is excessively high.

Chatter times (changes)	1 - 255 times
Filter base period (time interval)	0 - 32000 ms
Lock-out period multiplier (number of filter base periods while the chatter filter will remain On)	1 - 255 periods

Counter

Number of pulses for creating an event	1 - 255 pulses
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