

TELEM-DO5-T digital output RTU module



The TELEM family RTU module TELEM-DO5-T with fixed or changeable relay outputs for control operation of 5 objects (+ 5 objects with external relays module). Module bases on 32-bit ARM CPU. Interfaces to other equipment are RS-232 or RS-422/485. Data exchange protocol IEC 60870-5-1-101.

Features

- Configuration/parameter setting with IEC 60870-5-101 protocol using Configuration Tool.
- Adjustable Control pulse length 20ms ... 1min.
- Daisy-chain master-slave connection for up to 15 modules using RS-422/485 interface
- Self diagnostics and supervision simultaneously with data acquisition
- Operation execution control
- Relay coil impedance check before control operation
- Control operation execution signal
- Onboard knife disconnectors for relay outputs

Technical data

Number of controllable objects	5 (+5)
Number of output relays for every DO object	2 output relays per logical output
Output relay max. capacity	10A at 250 VAC, 10A at 50VDC
Indication	2 for every output, 1 for running indication, 1 for alert indication

Power requirements

Supply voltage for main board and relays	24 VDC
Fuse protection	0,1A (resettable)

Installation, terminals and environment

Weight	761 g
Mounting	DIN 35
Dimensions (WxHxD)	250 x 125 x 64
Terminals for signal	GMVSTBW 2,5/6-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	-30...+70°C

Communication ports configurable parameters and general settings

Link and ASDU address for IEC 60870-5-101	1...15 by DIP switches
Communication speed	200...38400 bps
Parity	None, Even, Odd
Object's base address	0 - 65500

Configuration parameters for digital outputs

Operation mode	Not in use, Pulse (1st relay for ON, 2nd for OFF command), Secured persistent (1st relay operation – check – 2nd relay operation)
Control mode	Select and execute / Direct execute
Short pulse duration	1 - 65535 ms
Number of short pulses	1 - 255
Long pulse duration	1 - 65535 ms
Number of long pulses	1 - 255

Configuration

Configuration of TELEM-DO5-T is configured using **TELEM-GWS** software.
Digital outputs are configured independently.