wasco®
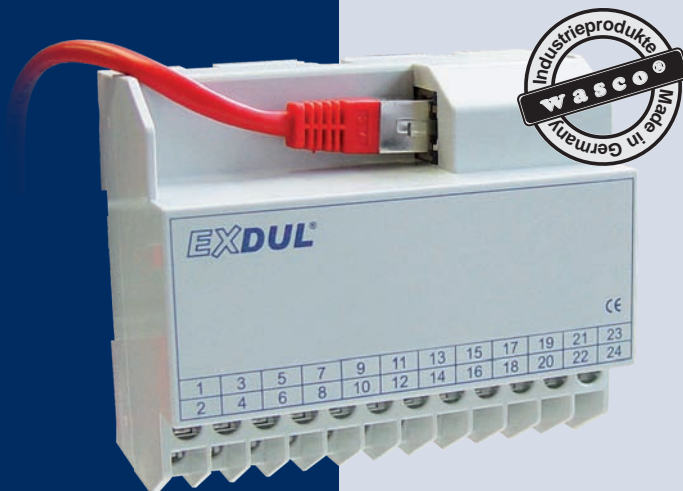
EXDUL-593S

Ethernet Module with 6 Temperature Measuring Units , 1 Optocoupler Input, 1 Optocoupler Output

6 temperature measuring units

> PT100 3-wire sensing
> PT1000 3-wire sensing

1 optocoupler input

1 optocoupler output

1 Counter 32 Bit

SPECIFICATIONS

The module EXDUL-593S features 6 measuring units with PT100 and PT1000 sensors, each of which with its own current source and measuring inputs. The measuring of the individual sensors is made by software conmands. Both the temperature and the sensor resistance can be measured.

In addition, the module provides one digital input and one digital output galvanically isolated via high-quality optocouplers and additional protection diodes. The special high power output optocoupler copes with a switching current up to 150 mA.

An external voltage source is required to supply the necessary operating voltage to the module.

The module provides a 24-pin screw terminal block for connecting the external power supply as well as the input and output optocouplers.

The optocoupler input may be programmed and used as a 32-bit counter input if required.

The compact chassis enables the module to be used as a portable device with a notebook. For mechanical or control engineering it can also be easily wall mounted or attached to DIN mounting rails.

6 Temperature measuring units
PT100 3 wire sensing
PT1000 3 wire sensing
sensor type per unit selectable via jumpers
input protection: +/-45V

Optocoupler input
1 bipolar channel
Over voltage protection diodes
Input voltage range
high = 10..30 Volt
low = 0..3 Volt

Optocoupler output
1 channel
High capacity optocouplers
Reverse polarity protection
Output current: max. 150 mA
Switching voltage: max. 50 V

Counter
1 programmable counter 32 Bit
(allocated to the optocoupler input)
counting frequency: max. 5 kHz

Operation voltage
external power supply required
+10 V...+30 V

Ethernet Interface
10/100Base-T Ethernet Interface

Connection Terminals
1 * 24-pin screw terminal block
Ethernet RJ45 socket

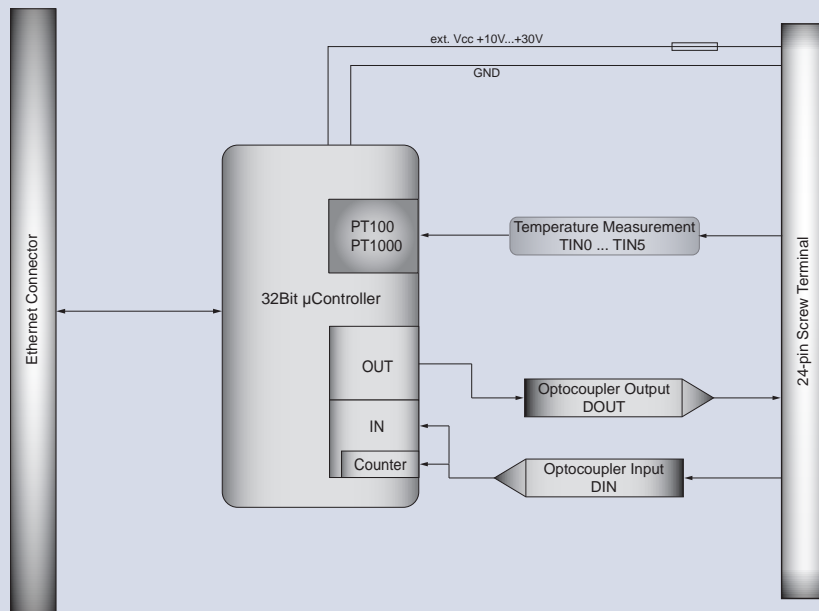**Ethernet connection lines**
RJ45 network cable Cat5 or later

Dimensions
105 mm x 89 mm x 59 mm (l x b x h)

Casing
Insulating plastic casing with integrated snap-on technology for DIN EN rail mounting. Suitable for control and engineering technology mounted to control and distribution boxes, surface mounting or mobile use on a desk.

BLOCK DIAGRAM

ext. Vcc +10V...+30V

GND

Ethernet Connector

32Bit µController

PT100
PT1000

Temperature Measurement
TIN0 ... TIN5

OUT

Optocoupler Output
DOUT

IN

Counter

Optocoupler Input
DIN

24-pin Screw Terminal

PIN ASSIGNMENT

The Terminals Vcc_EXT und GND_EXT are designated for an application of an external supply voltage of 10 ... 30 V.

Screw Terminal CN1

RTDIN0+	2	1	FORCE0+
FORCE1+	4	3	FORCE0-
FORCE1-	6	5	RTDIN1+
RTDIN2+	8	7	FORCE2+
FORCE3+	10	9	FORCE2-
FORCE3-	12	11	RTDIN3+
RTDIN4+	14	13	FORCE4+
FORCE5+	16	15	FORCE4-
FORCE5-	18	17	RTDIN5+
DOUT0-	20	19	DOUT0+
DIN0-	22	21	DIN0+
GND_EXT	24	23	Vcc_EXT

ASSEMBLY AND APPLICATION OPTIONS

Top-hat Rail Mounting

Wall Mounting

Mobile Use on a Desk

PROGRAMMING

Windows®:
Driver and program examples for Java, VB.NET, C++.NET, C#.NET, LabView Tutorial
Linux®:
Driver and program examples for C, C++ and Java (see manual)
on enclosed CD or download at:
www.messcomp.com, Section Support - Software

SCOPE OF DELIVERY

Ethernet Module EXDUL-593S
Cat.5 Ethernet cable 1 m
German Description (English on request)
Installation and sample programs

ORDER INFORMATION

EXDUL-593S   EDP-No. A-372310
Ethernet Optocoupler I/O Module

SUITABLE ACCESSORIES

DR-60-24   EDP-No. A-3425
Switching power supply providing one output 24 V / 2,5 A, closed construction design, touch-protected screw terminals, overload protection by current limitation, Power-On-LED
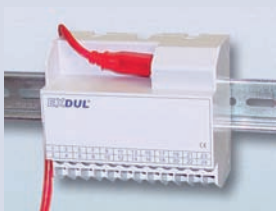

F4652-24-Set   EDP-No. A-351024
Industrial power relay combination with two changeover contacts 250 V / 8 A and free-wheeling diode, snap-on technology for DIN EN top-hat rails

For more detailed information about the here listed and other accessories we refer to the corresponding data sheets

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