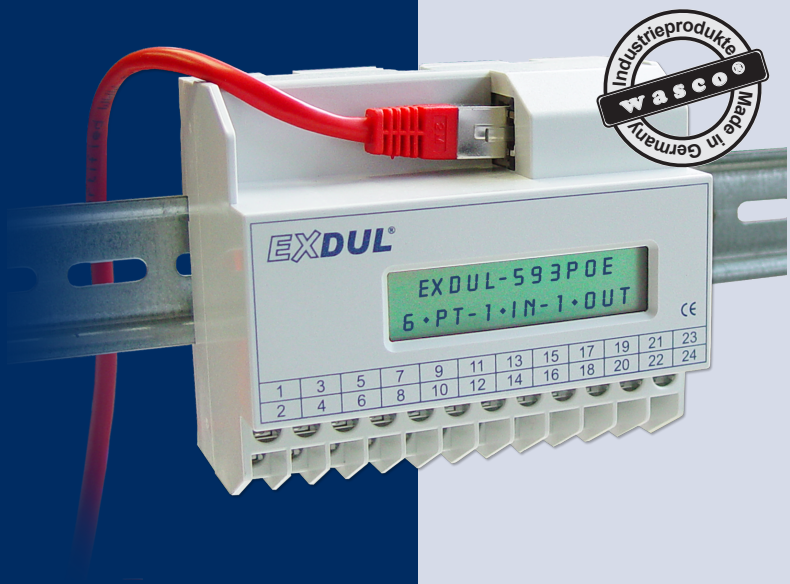
wasco®

EXDUL-593POE

Ethernet Module with 6 Temperature Measuring Units, 1 Optocoupler Input, 1 Optocoupler Output, LCD Display and Power supply via Power over Ethernet



6 temperature measuring units
PT100 3-wire sensing
PT1000 3-wire sensing

1 optocoupler input

1 optocoupler output

programmable logic
with module-controlled message to PC

1 Counter 32 Bit
with data backup in case of blackout

Watchdog

LCD display

The module EXDUL-593PoE 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.

The module can be powered by both power over Ethernet as via one external voltage source with the emergency agile operating voltage.

The module can be configured in a user-friendly way via the integrated webpage. In addition, a simple function test is possible.

Communication between PC and module is done by sending and receiving Bytearrays via a stable TCP/IP connection, which is secured by a handshake protocol.

Phone: +49.8071.9187.0
Fax: +49.8071.9187.40
www.messcomp.com/info@messcomp.com

Specifications

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 hardware-supported programmable counter 32 Bit (allocated to the optocoupler input)
counting frequency: max. 5 kHz
automatic backup of meter readings in case of blackout

Webpage
Configuration
Function test
Firmware update

Communication Watchdog
adjustable time slot od 1 bis 2^{32}-1 ms

Programmable Logic
Output switchable via links
Message to PC in case of a change of state at the input

LCD Display
Matrix display with 2 lines and 16 columns presenting 16 signs each line
Programmable for presentation of customized data or I/O status display

Operation voltage
Power over Ethernet IEEE802.3
or
+10 V...+30 V via external power supply

Ethernet Interface with PoE
10/100Base-T Ethernet Interface

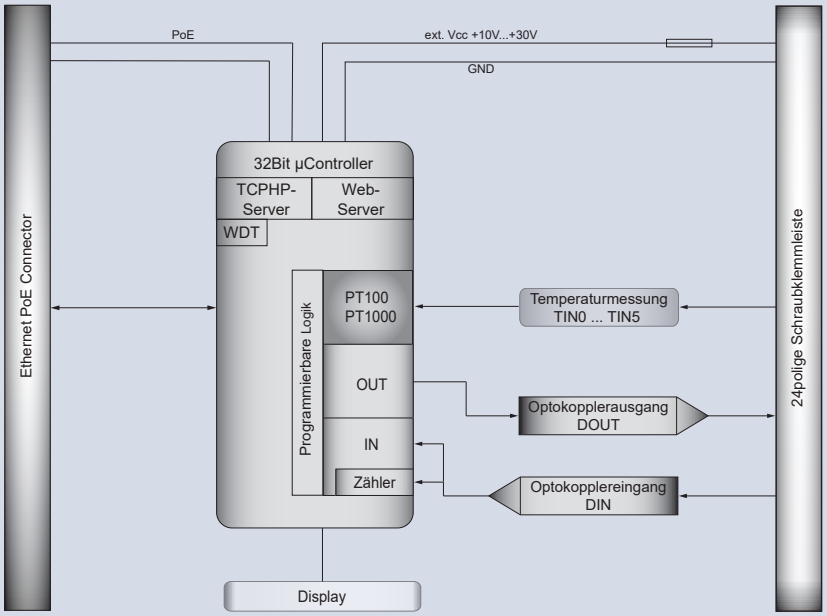
Connection Terminals
1 * 24-pin screw terminal block
Ethernet RJ45 socket

Ethernet connection lines
RJ45 network cable Cat6 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



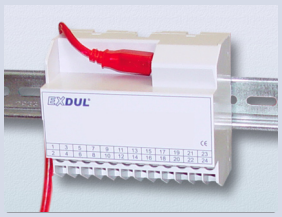
Pin Assignment

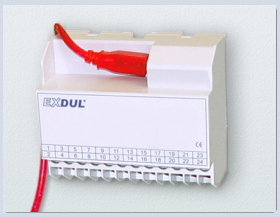
The Terminals Vcc_EXT und GND_EXT are designated for an application of an external supply voltage of 10 ... 30 V.

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 Op-


Top-hat Rail Mounting


Wall Mounting


Mobile Use on a Desk

The programmable logic of the module can be used both for autarkic actions at the output as well as for messages to the PC.
This way the need of a polling at the inputs often is eliminated and both data traffic and computer load significantly can be reduced.

The programmable LCD display presents digital and analog I/O status information or programmable user-specific data.

The module provides a 24-pin screw terminal block for connecting the external power supply as well as the input and output optocoupler.
The compact chassis enables the module to be used as a portable device

Programming

Windows®:
Driver and program examples for
Java, VB.NET, C++.NET, C#.NET, Python, LabView Tutorial
Linux®:
Driver and program examples for C, C++, Python and Java (see manual)
Android:
Driver and program examples for C#
Download at:
www.messcomp.com, Section Support - Software

Scope of Delivery

Ethernet Module EXDUL-593PoE
Cat.6 Ethernet cable 1 m
German Description (English on request)
Installation and sample programs

Order Information

EXDUL-593PoE **EDP-No. A-372330**
Ethernet Optocoupler I/O Module

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