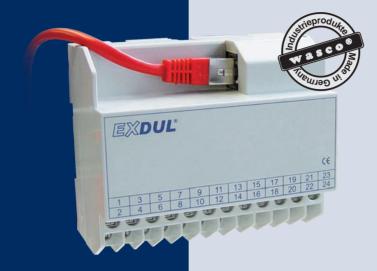


EXDUL-592S100

Ethernet Module with 4 Analog Voltage Inputs, 2 Analog Current Inputs, 1 Optocoupler Input, 1 Optocoupler Output and 3 Temperature Measuring Units PT100



- 4 A/D inputs 16 bit voltage measurement
- 2 A/D inputs current measurement 4..20mA
- 1 optocoupler input
- 1 optocoupler output
- 3 temperature measuring units PT100 3-wire sensing
- 1 Counter 32 Bit

EXDUL-592 features either four ground referenced or two differential 16-bit A/D input channels. Several bipolar input voltage ranges (+/-0.63 V, +/-1.27 V, +/-2.55 V, +/-5.1 V, +/-10.2V) can be adjusted. The two bipolar current inputs (+/- 20mA) are calibrated to 4..20mA. For temperature measurement the module features 3 measuring units with PT100 sensors, each of which with individual current source and metering inputs. The conversion process including the associated configuration of the A/D components (selection of range and channel) is triggered by software commands. Additionally the module provides one digital input and one digital output which are opto-isolated galvanically by high-quality optocouplers and are equipped with additional protection diodes. The special high power output optocoupler copes with a switching current up to 150 mA.

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

An external power supply is required to supply the necessary operating voltage to the module,

SPECIFICATIONS

A/D inputs voltage

4 inputs single-ended (se) or 2 inputs differential (diff) or combined se/diff selectable via software Resolution: 16 bit Input voltage range bipolar:

+/-0,63 Volt, +/-1,27 Volt, +/-2,55 Volt,

+/-5.1 Volt. +/-10.2 Volt FIFO: 10000 valves Input resistance: 500 MΩ Over voltage protection: 50V

max. sampling rate:100kHz

A/D inputs current

2 inputs Resolution 15 Bit Measuring range +/- 20mA Calibrated to 4..20mA Input resistance 120Ω FIFO: 10000 measured values max. sampling rate 100kHz

Optocoupler input

1 bipolar channel Over voltage protection diodes Input voltage range high = 10..30 Voltlow = 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

3 Temperature measuring units PT100

3-wire sensing

Operation voltage

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

Ethernet Interface

100Base-T Ethernet Interface

Connection Terminals

1 * 24-pin screw terminal block Ethernet RJ45 socket

Ethernet connection lines

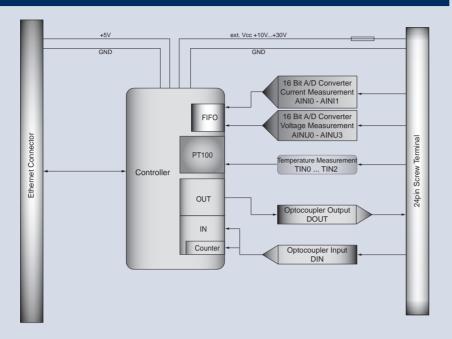
RJ45 network cable Cat5 or later

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

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.

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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



ASSEMBLY AND APPLICATION OPTIONS









Mobile Use on a Desk

The module provides a 24-pin screw terminal block for connecting the external power supply and the analog or digital inputs and outputs.

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 rail.

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-592S Cat.5 Ethernet cable 1 m German Description (English on request) Installation and sample programs

ORDER INFORMATION

EXDUL-592S EDP-No. A-372210 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

Product and company names mentioned may be trademarks of their respective owners