

EXDUL-584E

Ethernet Module with 8 Analog Inputs, 8 Analog Outputs, 1 Optocoupler Input, 1 Optocoupler Output



8 A/D inputs 16 bit

- 8 A/D inputs single-ended
- 4 A/D inputs differential
- 8 D/A outputs 16 bit
- 1 optocoupler input
- 1 optocoupler output
- **LCD Display**

EXDUL-584E provides either eight single ended or four 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 conversion process including the associated configuration of the A/D components (selection of range and channel) is triggered by software commands. The bipolar output voltage ranges (+/-2.55V, +/-5.1V, +/-10.2 V) of all of the eight 16-bit D/A outputs are software-selectable as well.

Additionally the module provides one digital input and one digital output which are opto-isolated galvanically by high-quality opto-couplers and 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 an input of a 32-bit counter if required.

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

SPECIFICATIONS

A/D inputs

8 inputs single-ended (se) or 4 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 resistor: 500 MΩ

Over voltage protection: 50V Measuring cycle:100kHz

D/A outputs

8 outputs
Resolution: 16 bit
Output voltage ranges bipolar
+/-2.55 Volt, +/-5.1 Volt, +/-10.2 Volt
Output current: max +/-5 mA

Optocoupler input

1 bipolar channel, galvanically isolated Over voltage protection diodes Input voltage range

high = 10..30 Volt low = 0..3 Volt

Optocoupler output

1 channel, galvanically isolated High capacity optocouplers Reverse polarity protection Output current: max. 150 mA Switching voltage: max. 50 V

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

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 higher

Dimensions

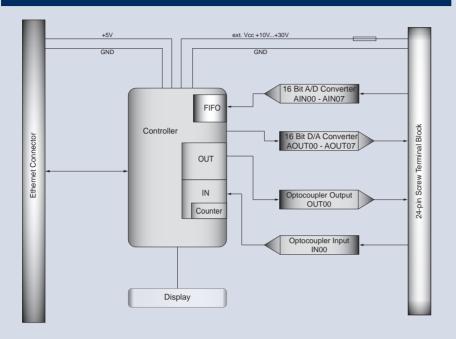
105 mm x 89 mm x 59 mm (l x b x h)

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.

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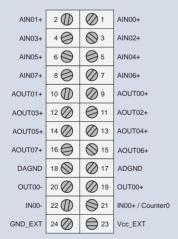
BLOCK DIAGRAM



PIN ASSIGNMENT

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

Screw-Terminal CN₁



ASSEMBLY AND APPLICATION OPTIONS







Top-hat Rail Mounting Wall Mounting

Mobile Use on a Desk

To supply the necessary operating voltage, an external power supply is required. The module provides a 24-pin screw terminal block for connecting the external power supply and the optocoupler input and output.

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-584E Cat.5 Ethernet cable 1 m German Description (English on request) Installation and sample programs

ORDER INFORMATION

EXDUL-584E EDP-No. A-371940 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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