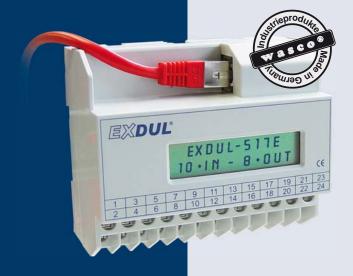


# EXDUL-517E

Ethernet Module with 10 Optocoupler Inputs, 8 Optocoupler Outputs (Ground Switching), Counter and LCD Display



10 optocoupler inputs

8 optocoupler outputs

1 counter 16-bit

LCD display

10Base-T Ethernet

EXDUL-517E provides 10 digital inputs and 8 digital outputs galvanically isolated by high-quality optocouplers and additional protection diodes. All input optocouplers have integrated schmitt trigger function. Special high power output optocouplers manage a maximum switching current of up to 150 mA. One of the ten input optocouplers is programmable and usable as a digital counter if required. An LCD display presents user-specimodule can be connected easily and conveniently to a network or PC in a plug and play manner via an Ethernet interface. To power the device an external power supply is necessary. The connections for the external power supply as well as the connections for the input and output optocouplers are led to a 24-pin screw terminal block. The compact chassis enables the module to be used as a portable device with a notebook. For mechanical engineering control applications it also allows easy wall mounting or uncomplicated clipping to DIN-EN mounting rails.

# fic data at initialisation and I/O status information at running operation. The

### **SPECIFICATIONS**

### Digital inputs by optocouplers

10 input channels, galvanically isolated common ground (cathodes shared) 1 of the channels programmable as digital counter

optocouplers with integrated Schmitt-Trigger function over voltage protection diodes

input voltage ranges high = 10 .... 30 V low = 0 .... 3 V

input frequency max. 10 kHz

### Digital outputs by optocouplers

8 channels galvanically isolated common plus connection (collectors shared)

high-capacity optocouplers reverse polarity protection diodes output current max. 150mA switching voltage max. 50 V

### Counter

1 programmable 16-bit counter (1 of the 10 input optocouplers is assigned) counting frequency max. 5 kHz

### **LCD Display**

Matrix display with 2 lines and 16 columns presenting 16 signs each line Info display during booting-up I/O status display during operation

### **Operating voltage**

+10 V...+24 V (external voltage supply necessary)

### **Ethernet Port**

10Base-T Ethernet Interface

### Module circuit points

1 \* 24-pin screw terminal strip

1 \* RJ45 jack

### **Network cable**

RJ45 network cable Cat5 or above

### **Dimensions**

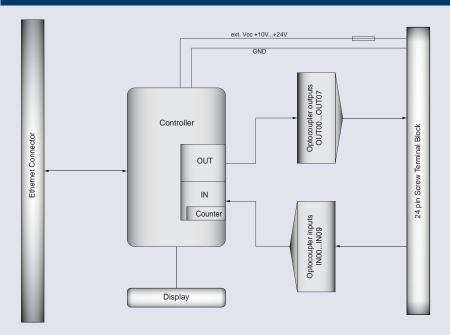
105 mm x 89 mm x 59 mm (l x b x h)

### Casing

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

Each single anode of the input optocouplers is individually led to the 24-pin screw terminal block CN1, the cathodes share one screw terminal. The collector connections of the output optocouplers also share one screw terminal, whereas each single emittor connection is fed to individual screw terminals of CN1. Screw terminals Vcc\_EXT and GND\_EXT are allocated for application of an external power supply of 10 ... 24 V.

### **Screw Terminal Block**

CN1			
OUT01-	2 🕕	Ø 1	OUT00-
OUT03-	4 🔘	<b>⊘</b> 3	OUT02-
OUT05-	6	5	OUT04-
OUT07-	8 🔵	Ø 7	OUT06-
OUT0007+	10 🕖	Ø 9	NC
IN01+	12 🕢	<b>1</b> 1	IN00+ / counter
IN03+	14 🕢	Ø 13	IN02+
IN05+	16	<b>(</b> ) 15	IN04+
IN07+	18 🚫	Ø 17	IN06+
IN09+	20 🕢	<b>Ø</b> 19	IN08+
NC	22 🕕	21	IN0009-
GND	24 🕢	23	Vcc

### ASSEMBLY AND APPLICATION OPTIONS









Top-hat Rail Mounting Wall Mounting

Mobile Use on a Desk

### **Programming**

Driver installation from enclosed CD. The accompanying CD provides sample programs for Microsoft Visual C++, Microsoft Visual Basic 2005 and Microsoft Visual

Scope of Delivery Ethernet Module EXDUL-517E Cat5 Ethernet patch cable 1 m German Description (English on request) Programs for installation and programming examples

# **ORDER INFORMATION**

EXDUL-517E EDP-No. A-374440 Ethernet Optocoupler I/O Module

### SUITABLE ACCESSORIES

### DR-60-24

Power supply providing one output 24 V / 2,5 A, closed construction design, contact-protected screw terminals, overload protection by current limitation, Power-On-LED



### F4652-24-Set

Industrial high-power relay combination of two change-over contacts 250 V / 8 A and free-wheeling diode, snap-on technology for DIN EN top-



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