

High quality IS and non-IS isolators in Eurocard format

MTL E SERIES

Eurocard isolators



- ◆ High quality galvanic isolators, including some non-is models, designed to DIN 41494 Eurocard standard
- ◆ Wide choice of input/output options
- ◆ Three-port isolation-input, output and power supply isolated from each other
- ◆ 24V ac/dc supply or loop powered
- ◆ High transfer accuracy
- ◆ Units conform to NAMUR EMC standards
- ◆ Intrinsically safe models. TÜV certified to CENELEC standards and the ATEX Directive

MTL's E Series is a range of high quality galvanic isolators, including some non-IS models, in 19-inch Eurocard format. The range is produced at Bochum, Germany, one of MTL's design and manufacturing centres.

All MTL Eurocard interface devices conform to the DIN41494 Eurocard standard and also to NAMUR EMC standards. The IS versions are TÜV certified to CENELEC standards and the ATEX Directive and all models are Year 2000 compliant.

The Eurocard range provides all common functions, including HART® compatibility, so that most installations can be designed easily around the 19-inch cards. They operate with a 24V ac/dc supply or are loop powered.

In addition to the power supply options, Eurocards offer a wide choice of input/output options, high transfer accuracy and a wide selection of alternative formats. For example, every IS card could be non-IS as well, and multi-channel cards, up to four channels, are also possible.

This flexibility allows MTL to offer customised Eurocard solutions. Please contact MTL Instruments GmbH, or your local MTL distributor, with your special requirements and the best possible option for your application will be recommended.

HART® is a registered trademark of HART Communication Foundation



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STANDARD EUROCARDS

Type	Description	Details
E01003	Frequency-to-current converter	Frequency range 0.06Hz– 10kHz
E01005	Fast analogue temperature converter	For thermocouple with LFD
E01131	Repeater power supply and mV-isolator for strain-gauge bridges	Strain-gauge bridges for 4- or 6-wire applications
E02002	Isolating power supply and repeater	Selectable current or voltage input/output signal and LFD option
E02007	Isolating driver, HART® compatible	1- or 2-channel version IS output
E02008	Isolating power supply and repeater, HART® compatible	1- or 2-channel version IS input
E02009	Isolating power supply and repeater, HART® compatible	Power supply or repeater selectable via switch
E02010	Isolating power supply and repeater, HART® compatible	1-channel with two adjustable trip points
E02011	Isolating power supply and repeater, HART® compatible	Fail safe
E02949	Loop-powered isolator	1- or 2-channel version IS output
E03002	Trip amplifier with 4 trip points	1 or 2 inputs, free configurable function
E03003	Trip amplifier with 4 trip points	1 or 2 inputs with LFD option
E05016	Switch/proximity detector interface unit	2- or 4-channel version
E05313	Analogue-to-frequency converter	Voltage or current input

APPROVALS

Product No.	Approved for	Certificate No.
E0 1003	⊕ II(1)G [EEx ia] IIC	TÜV 98 ATEX 1359 X
E01005	⊕ II(1)G [EEx ia] IIC	TÜV 00 ATEX 1633
E01131	⊕ II(1)G [EEx ia] IIC	TÜV 96 ATEX 1144 X
E02002	⊕ II(1)G [EEx ia] IIC	TÜV 98 ATEX 1290 X
E02007	⊕ II(1)G [EEx ia] IIC	TÜV 00 ATEX 1575
E02008	⊕ II(1)G [EEx ia] IIC	TÜV 00 ATEX 1639 X
E02009	⊕ II(1)G [EEx ia] IIC	TÜV 97 ATEX 1216 X
E02010	⊕ II(1)G [EEx ia] IIC	TÜV 97 ATEX 1145 X
E02011	⊕ II(1)G [EEx ia] IIC	TÜV 01 ATEX 1737 Award certificate: PP-112/2001
E02949	⊕ II(1)G [EEx ia] IIC	TÜV 99 ATEX 1399
E03002		
E03003		
E05016	⊕ II(1)G [EEx ia] IIC	TÜV 02 ATEX 1963
E05313		

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