

Translation

Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

Type Examination Certificate Number: **BVS 20 ATEX E 059 X**

Product: **Temperature Converter module type D6072S, D6072D, D6072S-087, D6072D-087, D6072S-096, D6072D-096, D6072S-099, D6072D-099, D6072S-xxx and D6072D-xxx**

Manufacturer: **G.M. International S.R.L.**

Address: **Via Mameli 53/55, 20852 Villasanta (MB), Italy**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 20.2133 EU.


The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018 **General requirements**
EN IEC 60079-7:2015/A1:2018 **Increased Safety "e"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 3G Ex ec IIC T4 Gc**

DEKRA Testing and Certification GmbH
Bochum, 2020-09-24

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **Type Examination Certificate**

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15 **Product description**

15.1 **Subject and type**

Temperature Converter module type D6072S, D6072D, D6072S-087, D6072D-087, D6072S-096, D6072D-096, D6072S-099, D6072D-099

The extended DIN Rail Isolator type series D6072*, D6072*-xxx, comprises the following models:

Temperature Converter	type D6072*, D6072*-099
Resistance Repeater	type D6072*-087
Thermocouple/mV Repeater	type D6072*-096

In the full designation of type D6072*, D6072*-xxx the "*" is replaced by letters marking details of construction as follows:

S = single channel	S-xxx = single channel
D = dual channel	D-xxx = dual channel

(Option 'xxx' = non Ex -relevant details of function)

15.2 **Description**

Temperature Converter type D6072*, D6072*-xxx, D6072*-087, D6072*-096, D6072*-099

Temperature Converter D6072 series provide single or dual channel conversion of temperature sensor signals (e.g. thermocouples 2, 3, 4 wire resistance temperature detectors RTD, 'mV' sources or transmitting potentiometers) from equipment located in potentially hazardous areas and provide galvanic separation of field circuits from system circuits.

Available versions of the Temperature Converter

Single channel: type D6072S, D6072S-xxx, D6072S-087, D6072S-096, D6072S-099

Dual channel: type D6072D, D6072D-xxx, D6072D-087, D6072D-096, D6072D-099

15.3 **Parameters**

15.3.1 **Power supply**

DIN Rail Isolator version	Voltage	Power
D6072D, D6072D-087, D6072D-099	24 V DC typical (18 to 30 V DC)	1.40 W
D6072S, D6072S-087, D6072S-099		0.90 W
D6072D-096		1.00 W
D6072S-096		0.75 W

15.3.2 **Ambient temperature range**

Temperature at the place of installation:

$$-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$$

