



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEx DEK 24.0017</b>	Page 1 of 3	<a href="#">Certificate history:</a>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2024-12-04		
Applicant:	<b>PR Electronics A/S</b> Lerbakken 10, 8410 Rønde <b>Denmark</b>		
Equipment:	<b>2 wire Programmable Transmitter type 5131B**</b>		
Optional accessory:			
Type of Protection:	<b>[Ex ia]</b>		
Marking:	<b>[Ex ia Ga] IIC/IIB/IIA</b> <b>[Ex ia Da] IIIC</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2024-12-04

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**Meander 1051**  
**6825 MJ Arnhem**  
**Netherlands**





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Lerbakken 10, 8410 Rønde  
**Denmark**

Manufacturing  
locations: **PR Electronics A/S**  
Lerbakken 10, 8410 Rønde  
**Denmark**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR24.0020/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0017/06](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The 2 wire Programmable Transmitter type 5131B\*\* is designed for mounting on a DIN rail in a non-classified area.

Ambient temperature range -20 °C to +60 °C.

For more information see Annex 1.

## **SPECIFIC CONDITIONS OF USE: NO**

N/A

## **Annex:**

[228359400-Annex 1.pdf](#)

## **Description**

The 2 wire Programmable Transmitter type 5131B\*\* is designed for mounting on a DIN rail in a non-classified area. The transmitter can be configured to the actual application by means of a standard PC using the COM port on the front cover. The product can be delivered in 1 and 2 channel versions with input for a wide range of temperature sensors.

Ambient temperature range -20 °C to +60 °C.

## **Type designation**

5131abc

a = Version:

B: Explosion safety

b = Input configuration for each channel:

1: Ch. 1: RTD / TC

Ch. 2: RTD / TC

2: Ch. 1: mA / V / mV

Ch. 2: mA / V / mV

3 (\*): Ch. 1: RTD / TC

Ch. 2: mA / V / mV

(\*) Available only as B: Double (both channels used)

c = Number of channels used:

A: Single

B: Double

## **Electrical data**

Supply (supply - terminal 11, supply + terminal 13 (channel 1) and respectively supply - terminal 21, supply + terminal 23 (channel 2)):  $U = 7.5 \dots 35 \text{ Vdc}$ .

For all circuits above:  $U_m = 250 \text{ V}$  (max. frequency 400 Hz).

Supply (supply + terminal 13, test terminal 12 (channel 1) and respectively supply + terminal 23, test terminal 22 (channel 2)):  $U = 0 \text{ V}$ .

For all circuits above:  $U_m = 0 \text{ V}$ .

Note: Only a hand held amp-meter (passive device) is allowed to be connected to these terminals.

Loop link interface (connectors J101, J301)

For all circuits above:  $U_m = 60 \text{ V}$ .

Note 1: Only Loop Link model 5909 is allowed to be connected to these terminals.

Note 2: No sensors are allowed to be connected when Loop Link interface is used.

Sensor circuits (terminals 41 ... 44 (channel 1) and respectively 51 ... 54 (channel 2)):

in type of protection intrinsic safety Ex ia IIC/IIB/IIA/IIIC, with following maximum values (each channel):

$U_o = 8 \text{ V}$ ;  $I_o = 10 \text{ mA}$ ;  $P_o = 20 \text{ mW}$  (resistive limited);

$C_o = 8 \text{ }\mu\text{F}$  (IIC) or  $95 \text{ }\mu\text{F}$  (IIB and IIIC) or  $1000 \text{ }\mu\text{F}$  (IIA);

$L_o = 350 \text{ mH}$  (IIC) or  $1000 \text{ mH}$  (IIB and IIIC) or  $1000 \text{ mH}$  (IIA);