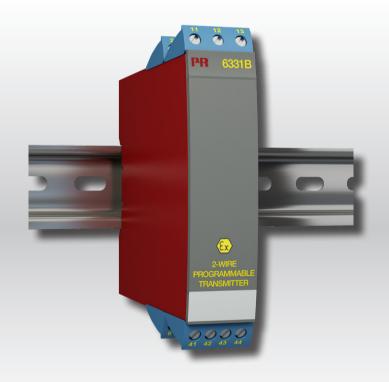
Product manual 6331

2-wire programmable transmitter





















TEMPERATURE | I.S. INTERFACES | COMMUNICATION INTERFACES | MULTIFUNCTIONAL | ISOLATION | DISPLAY

No. 6331V109-UK

Serial no.: 221792250-241659062



6 Product Pillars to meet your every need

Individually outstanding, unrivalled in combination

With our innovative, patented technologies, we make signal conditioning smarter and simpler. Our portfolio is composed of six product areas, where we offer a wide range of analog and digital devices covering over a thousand applications in industrial and factory automation. All our products comply with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and have a 5-year warranty for greater peace of mind.



Our range of temperature transmitters and sensors provides the highest level of signal integrity from the measurement point to your control system. You can convert industrial process temperature signals to analog, bus or digital communications using a highly reliable point-to-point solution with a fast response time, automatic self-calibration, sensor error detection, low drift, and top EMC performance in any environment.



commitment to innovation, we have made pioneering achievements in developing I.S. interfaces with SIL 2 Full
Assessment that are both efficient and cost-effective. Our comprehensive range of analog and digital intrinsically safe isolation barriers offers multifunctional inputs and outputs, making PR an easy-to-implement site standard.
Our backplanes further simplify large installations and provide seamless integration to standard DCS systems.

We deliver the safest signals by validating our products against the toughest safety standards. Through our



We provide inexpensive, easy-to-use, future-ready communication interfaces that can access your PR installed base of products. All the interfaces are detachable, have a built-in display for readout of process values and diagnostics, and can be configured via push-buttons. Product specific functionality includes communication via Modbus and Bluetooth and remote access using our PR Process Supervisor (PPS) application, available for iOS and Android.



Our unique range of single devices covering multiple applications is easily deployable as your site standard. Having one variant that applies to a broad range of applications can reduce your installation time and training, and greatly simplify spare parts management at your facilities. Our devices are designed for long-term signal accuracy, low power consumption, immunity to electrical noise and simple programming.



Our compact, fast, high-quality 6 mm isolators are based on microprocessor technology to provide exceptional performance and EMC-immunity for dedicated applications at a very low total cost of ownership. They can be stacked both vertically and horizontally with no air gap separation between units required.



Our display range is characterized by its flexibility and stability. The devices meet nearly every demand for display readout of process signals and have universal input and power supply capabilities. They provide a real-time measurement of your process value no matter the industry and are engineered to provide a user-friendly and reliable relay of information, even in demanding environments.

2-wire programmable transmitter 6331

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2-wire programmable transmitter 6331

- RTD, TC, Ohm, or mV input
- Extremely high measurement accuracy
- Galvanic isolation
- Programmable sensor error value
- 1- or 2-channel version

Application

- Linearised temperature measurement with Pt100...
 Pt1000, Ni100...Ni1000, or TC sensor.
- Conversion of linear resistance variation to a standard analogue current signal, for instance from valves or Ohmic level sensors.
- Amplification of a bipolar mV signal to a standard 4...20 mA current signal.

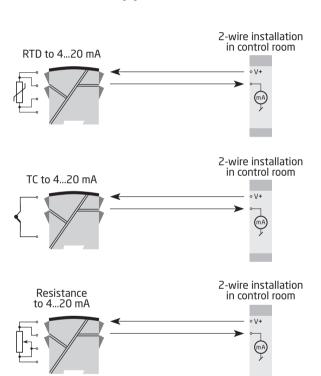
Technical characteristics

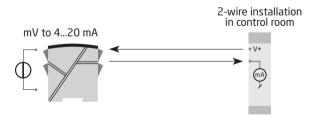
- Within a few seconds the user can program PR6331 to measure temperatures within all ranges defined by the norms.
- The RTD and resistance inputs have cable compensation for 2-, 3- and 4-wire connection.
- Continuous check of vital stored data for safety reasons.

Mounting / installation

- Mounted vertically or horizontally on a DIN rail. Using the 2-channel version up to 84 channels per metre can be mounted.
- The 6331A can be mounted in zone 2 and zone 22 / Class I, Division 2, Groups A, B, C, D.
- The 6331B can be mounted in zone 0, 1, 2 and zone 21, 22 including M1 / Class I, Division 1, Groups A, B, C, D.

Applications





Туре	Version		Galvanic iso	lation	Channels	
6331	Zone 2, 22 / Div. 2 Zone 0, 1, 2, 21, 22, M1 / DIV. 1, DIV. 2	: A : B	1500 VAC		Single Double	: A : B

^{*}NB! Please remember to order CJC connectors type 5910 / 5910Ex (channel 1) and 5913 / 5913Ex (channel 2) for TC inputs with an internal CJC.

Electrical specifications

		11
-nviro	nmantal	conditions:
CIIVIIO	ıııııcııtaı	conditions.

Mechanical specifications:

Common specifications:

Supply voltage, DC

 6331A
 7.2...35 VDC

 6331B
 7.2...30 VDC

 Max. required power, 1 / 2 channels, 6331A
 0.8 W / 1.6 W

 Max. required power, 1 / 2 channels, 6331B
 0.7 W / 1.4 W

 Internal power dissipation, 6331A
 0.17...0.8 W

 Internal power dissipation, 6331B
 0.17...0.7 W

 Voltage drop
 7.2 VDC

Warm-up time.5 min.ProgrammingLoop LinkSignal / noise ratioMin. 60 dBResponse time (programmable)1...60 sEEprom error check< 3.5 s</td>Signal dynamics, input20 bitSignal dynamics, output16 bit

Accuracy, the greater of general and basic values:

General values						
Input type	Input type Absolute accuracy Temperature coefficient					
All ≤ ±0.05% of span ≤ ±0.01% of span / °C						

Basic values			
Input type Basic accuracy		Temperature coefficient	
RTD	≤ ±0.2°C	≤ ±0.01°C/°C	
Lin. R	≤ ±0.1 Ω	≤ ±10 mΩ / °C	
Volt	≤ ±10 µV	≤ ±1 µV / °C	
TC type: E, J, K, L, N, T, U	≤ ±1°C	≤ ±0.05°C / °C	
TC type: B, R, S, W3, W5, LR	≤ ±2°C	≤ ±0.2°C / °C	

Electrical specifications, input:

RTD and linear resistance input:

RTD	Min.	Max.	Min.	
type	value	value	span	Standard
Pt100	-200°C	+850°C	25°C	IEC 60751
Ni100	-60°C	+250°C	25°C	DIN 43760
Lin. R	0 Ω	5000 Ω	30 Ω	

TC input:

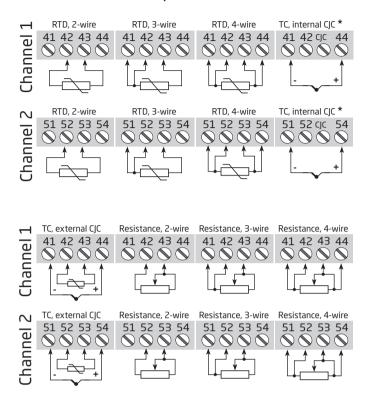
	Min.	Max.	Min.	
Туре	temperature	temperature	span	Standard
В	+400°C	+1820°C	100°C	IEC584
E	-100°C	+1000°C	50°C	IEC584
J	-100°C	+1200°C	50°C	IEC584
K	-180°C	+1372°C	50°C	IEC584
L	-100°C	+900°C	50°C	DIN 43710
N	-180°C	+1300°C	50°C	IEC584
R	-50°C	+1760°C	100°C	IEC584
S	-50°C	+1760°C	100°C	IEC584
T	-200°C	+400°C	50°C	IEC584
U	-200°C	+600°C	50°C	DIN 43710
W3	0°C	+2300°C	100°C	ASTM E988-90
W5	0°C	+2300°C	100°C	ASTM E988-90
LR	-200°C	+800°C	50°C	GOST 3044-84

Sensor error current: When detecting Nom. 33 μA Voltage input: Output: **Current output:** Sensor error detection: Of span = Of the presently selected range Observed authority requirements: EAC..... TR-CU 020/2011 I.S. / Ex approvals: 6331A: ATEX..... DEKRA 20ATEX0096 X 6331R ATEX..... DEKRA 20ATEX0095 X FM FM17US0013X

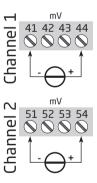
6331A & 6331B:

Connections

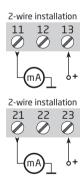
Inputs:



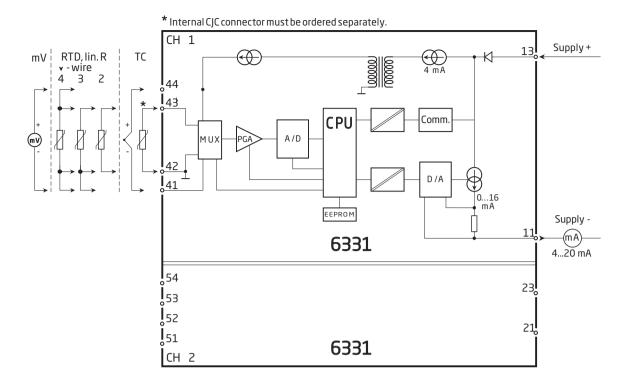
Inputs:



Outputs:

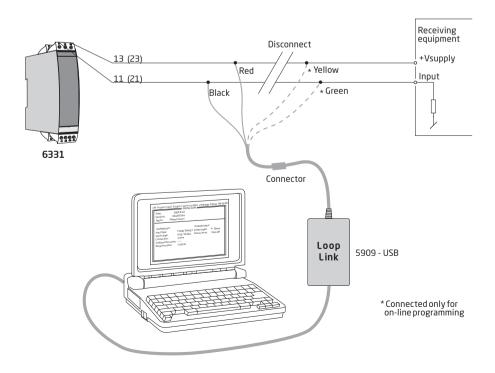


Block diagram



Programming

- Loop Link is a communications interface that is needed for programming 6331.
- For programming please refer to the drawing below and the help functions in PReset.
- When communicating with non-installed modules, connectors 11, 12, 13 (channel 1) and 21, 22, 23 (channel 2) can be dismantled in the safe area to connect the terminals of the communications interface to the pins.
- Loop Link is not approved for communication with modules installed in harzardous (Ex) areas.



ATEX-installation drawing 6331QA02-V3R0

For safe installation of 6331A and 6334A the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. Year of manufacture can be taken from the first two digits in the serial number.

Certificate DEKRA 20ATEX 0096X

Marking

II 3 G Ex nA [ic] IIC T6 ... T4 Gc II 3 G Ex ec [ic] IIC T6 ... T4 Gc II 3 G Ex ic IIC T6 ... T4 Gc

II 3 D Ex ic IIIC Dc

Standards EN 60079-0: 2018, EN 60079-11: 2012,

EN 60079-15: 2010, EN 60079-7:2015+A1: 2018

Terminal 41,42,43,44 51,52,53,54	Terminal 11,12,13,14 21,22,23,24	Terminal 11,12,13,14 21,22,23,24	Terminal 11,12,13,14 21,22,23,24
Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex nA, Ex ec
Uo: 9.6 V lo: 25 mA Po: 60 mW Lo: 33 mH Co: 2.4 µF	Ui = 35 V Ii = 110 mA Ci = 1 nF Li = 10 μH	Ui = 24 V Ii = 260 mA Ci = 1 nF Li = 10 μH	Umax ≤ 35 VDC or Umax ≤ 24 VDC

Ex ic IIC, Ex ic IIIC	Ambient temperature range		
Temperature Class	Ui=35 V	Ui=24 V	
Т6	-40°C to +54°C	-40°C to +63°C	
Т5	-40°C to +69°C	-40°C to +78°C	
T4	-40°C to +85°C	-40°C to +85°C	

Ex ec, Ex nA Temperature	Ambient temp	perature range
Class	Vmax=35 V	Vmax=24 V
Т6	-40°C to +43°C	-40°C to +55°C
T5	-40°C to +85°C	-40°C to +85°C
T4	-40°C to +85°C	-40°C to +85°C

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Dc, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to EN 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer. Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to EN 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

ATEX-installation drawing 6331QA01-V3R0



For safe installation of 6331Bxx or 6334Bxx the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. Year of manufacture can be taken from the first two digits in the serial number.

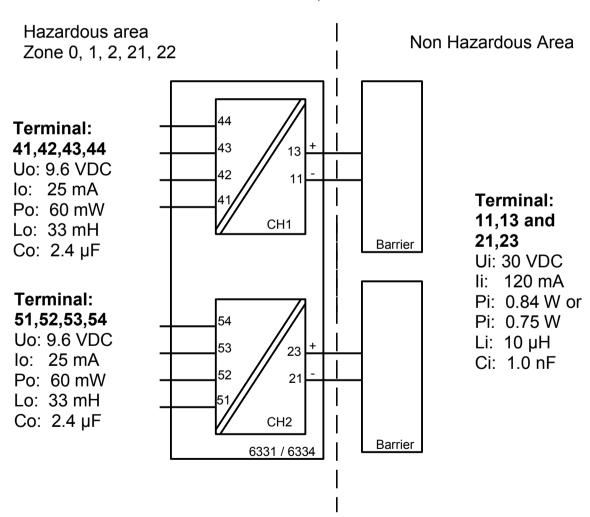
ATEX Certificate DEKRA 20ATEX 0095 X

Marking



II 1 G Ex ia IIC T6...T4 Ga II 2 D Ex ia IIIC Db I M1 Ex ia I Ma

Standards EN IEC 60079-0: 2018, EN 60079-11: 2012



Temperature Class	Ambient temperature range		
Class	Pi: 0.84 W	Pi: 0.75 W	
Т6	-40°C to +40°C	-40°C to +45°C	
Т5	-40°C to +55°C	-40°C to +60°C	
T4	-40°C to +85°C	-40°C to +85°C	

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to EN 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga or Ma, and if the enclosure is made of aluminum, it must be installed such, that ignition sources due to impact and friction sparks are excluded.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Db, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to ENC 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ma, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP54 according to EN 60529, and that is suitable for the application and correctly installed.

Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

For an ambient temperature ≥ 60°C, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.

The sensor circuit is not infallibly galvanically isolated from the input circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500 VAC for 1 minute.

IECEx-installation drawing 6331QI02-V3R0

For safe installation of 6331A and 6334A the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. Year of manufacture can be taken from the first two digits in the serial number.

Certificate IECEx DEK 20.0059X

Marking Ex nA [ic] IIC T6 ... T4 Gc

Ex ec [ic] IIC T6 ... T4 Gc

Ex ic IIC T6 ... T4 Gc

Ex ic IIIC Dc

Standards IEC 60079-0: 2017, IEC 60079-11: 2011,

IEC 60079-15: 2010, IEC 60079-7: 2017

Terminal	Terminal	Terminal	Terminal
41,42,43,44	11,12,13,14	11,12,13,14	11,12,13,14
51,52,53,54	21,22,23,24	21,22,23,24	21,22,23,24
Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex ic IIC,Ex ic IIIC	Ex nA, Ex ec
Uo: 9.6 V	Ui = 35 V	Ui = 24 V	Umax ≤ 35 VDC
lo: 25 mA Po: 60 mW	li = 110 mA Ci = 1 nF	li = 260 mA Ci = 1 nF	or
Lo: 33 mH Co: 2.4 µF	Li = 10 μH	Li = 10 μH	Umax ≤ 24 VDC

Ex ic IIC, Ex ic IIIC Temperature Class	Ambient temperature range	
	Ui=35 V	Ui=24 V
T6	-40°C to +54°C	-40°C to +63°C
T5	-40°C to +69°C	-40°C to +78°C
T4	-40°C to +85°C	-40°C to +85°C

Ex ec, Ex nA Temperature Class	Ambient temperature range	
	Vmax=35 V	Vmax=24 V
Т6	-40°C to +43°C	-40°C to +55°C
T5	-40°C to +85°C	-40°C to +85°C
T4	-40°C to +85°C	-40°C to +85°C

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex ic, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Dc, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to IEC 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer. Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP54 according to IEC 60079-0, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Gc and applied in type of protection Ex nA or Ex ec, the equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

IECEx-installation drawing 6331QI01-V2R0



For safe installation of 6331Bxx or 6334Bxx the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. Year of manufacture can be taken from the first two digits in the serial number.

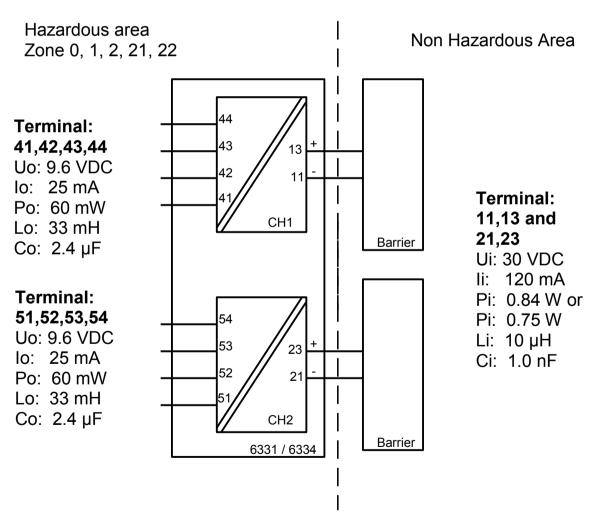
Certificate IECEx DEK 20.0059X

Marking

Ex ia IIC T6...T4 Ga

Ex ia IIIC Db Ex ia I Ma

Standards IEC 60079-0: 2017, IEC 60079-11: 2011



Temperature Class	Ambient temperature range	
	Pi: 0.84 W	Pi: 0.75 W
Т6	-40°C to +40°C	-40°C to +45°C
Т5	T5 -40°C to +55°C	
T4	-40°C to +85°C	-40°C to +85°C

Installation notes

If the enclosure is made of non-metallic plastic materials, electrostatic charges on the transmitter enclosure shall be avoided.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for the application and correctly installed.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ga or Ma, and if the enclosure is made of aluminum, it must be installed such, that ignition sources due to impact and friction sparks are excluded.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Db, the transmitter shall be mounted in a separately certified enclosure that provides a degree of protection of at least IP5X according to IEC 60079-0, and that is suitable for the application and correctly installed. The surface temperature of the outer enclosure is +20 K above the ambient temperature, determined without a dust layer.

Ambient temperature range: -40°C to +85°C.

If the transmitter is installed in an explosive atmosphere requiring the use of equipment protection level Ma, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP54 according to IEC 60529, and that is suitable for the application and correctly installed. Ambient temperature range: -40°C to +85°C.

Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

For an ambient temperature ≥ 60°C, heat resistant cables shall be used with a rating of at least 20 K above the ambient temperature.

The sensor circuit is not infallibly galvanically isolated from the input circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500 VAC for 1 minute.



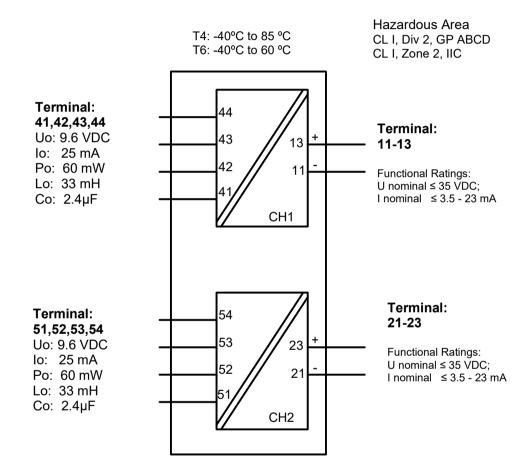
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For safe installation of the single channel 6331A2A or the two channel 6331A2B the following must be observed. The module shall only be Installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

Marking

Class I, Division 2, Group A,B,C,D T6...T4 Ex nA[ic] IIC T6...T4 Class I Zone 2 AEx nA[ic] IIC T6...T4





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NI Installation instructions

The transmitter must be installed in an enclosure providing a degree of protection of at least IP54 according to IEC60529 that is suitable for the application and is correctly installed. Cable entry devices and blanking elements shall fulfill the same requirements.

If the enclosure is made of non-metallic materials or of painted metal, electrostatic charging shall be avoided.

Use supply wires with a rating of at least 5 K above the ambient temperature. Supply from a Class 2 Power Supply with Transient protection or equivalent.

WARNING: Substitution of components may impair suitability for Class I, Division 2 AVERTISSEMENT: la substitution de composants peut nuire à l'aptitude à la Classe I, Division 2.

WARNING: Do not disconnect equipment unless power has been switched off or the area is known to be safe.

AVERTISSEMENT: Ne débranchez pas l'équipement sauf si l'alimentation a été coupée ou si la zone est connue pour être sûre.

Non Incendive field wiring installation

The non incendive field Wiring Circuit concept allows interconnection of Nonincendive Field wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specially examined in combination as a system using any of the wiring methods permitted for unclassified locations,

Voc < Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

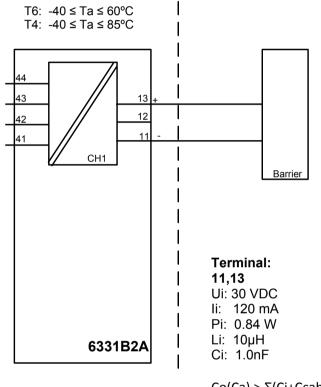


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Hazardous (Classified) Location IS,Class I, Division 1, Group A,B,C,D T4..T6 Ex ia IIC T4..T6 Ga Class I, Zone 0, AEx ia IIC T4..T6 Ga Non Hazardous Location

Terminal: 41,42,43,44 Connect to passive or non-energy storing devices such as RTD's Resistors and Thermocouples only.



 $Co(Ca) > \sum(Ci+Ccable)$ $Lo(La) > \sum(Li+Lcable)$

Installation notes.

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

Substitution of components may impair intrinsic safety.

Revision date: Version Revision Page: 2014-10-20 V1R0 1/2

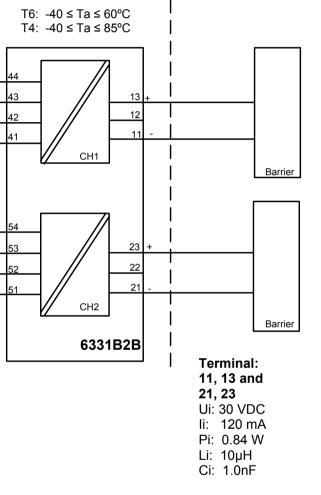


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Hazardous (Classified) Location IS,Class I, Division 1, Group A,B,C,D T4..T6 Ex ia IIC T4..T6 Ga Class I, Zone 0, AEx ia IIC T4..T6 Ga Non Hazardous Location

Terminal: 41,42,43,44 51,52,53,54 Connect to passive or non-energy storing devices such as RTD's Resistors and Thermocouples only.



 $Co(Ca) > \sum (Ci+Ccable)$ $Lo(La) > \sum (Li+Lcable)$

Installation notes.

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

Channel 1 and Channel 2 are separate channels and therefore separate shielded cables shall be used for each channel.

Substitution of components may impair intrinsic safety.

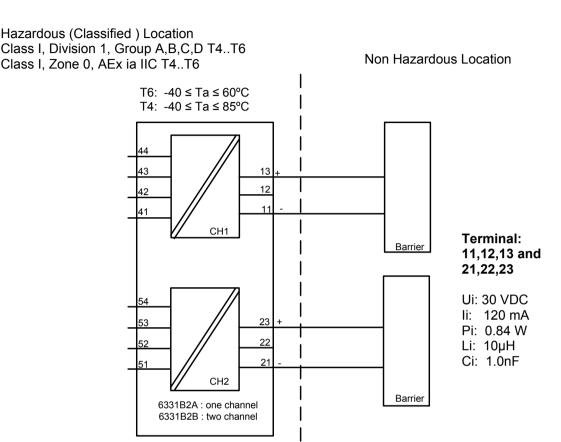
Revision date: Version Revision		Page:
2014-10-20	V1R0	2/2



FM Installation Drawing 6331QF01

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Installation notes.

For installation in Class I the Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

Equipment that is FM-approved for intrinsic safety may be connected to barriers based on the Entity Concept. This concept permits interconnection of approved transmitters, meters and other devices in combinations, which have not been specifically examined by FM. provided that the agency's criteria are met. The combination is then intrinsically safe, if the entity concept is acceptable to the authority having jurisdiction over the installation. The entity concept criteria are as follows: The intrinsically safe devices, other than barriers, must not be a source of power. The maximum voltage Ui(V_{MAX}) and current Ii(I_{MAX}), and maximum power Pi(Pmax), which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (Uo or V_{OC} or V_t) and current (Io or I_{SC} or I_t) and the power Po which can be delivered by the barrier. The sum of the maximum unprotected capacitance (C_i) for each intrinsically device and the interconnecting wiring must be less than the capacitance (Ca) which can be safely connected to the barrier. The sum of the maximum unprotected inductance (Li) for each intrinsically device and the interconnecting wiring must be less than the inductance (La) which can be safely connected to the barrier. The entity parameters Uo, Voc or Vt and Io, Isc or It, and Ca and La for barriers are provided by the barrier manufacturer.

Revision date: Version Revision Page: 2014-09-16 V1R0 1/2



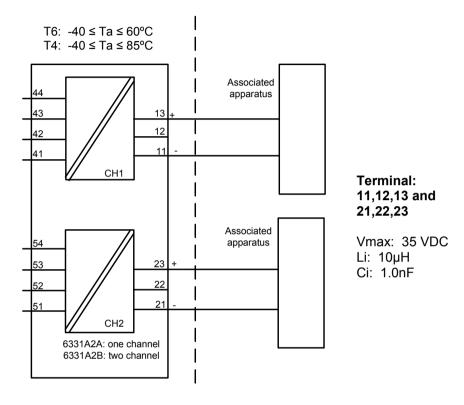
FM Installation Drawing 6331QF01

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Hazardous (Classified) Location Class I, Division 2, Group A,B,C,D T4..T6 Class I, Zone 2, IIC T4..T6

Non Hazardous Location



Installation notes.

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

To assure a Non-Incendive system the transmitter and associated apparatus must be wired in accordance with the associated apparatus manufacturers field wiring instructions and the circuit diagram shown above.

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Revision date: Version Revision Page: 2014-09-16 V1R0 2/2

Document history

The following list provides notes concerning revisions of this document.

Rev. ID	Date	Notes
106	1548	CSA, FM & IECEx approvals added.
107	1903	Specifications for max. required power added.
		New FM certificate.
		CSA approval for 6331A received. Installation
		drawing added.
108	2242	ATEX and IECEx approvals updated - Ex na changed
		to Ex ec.
		CSA installation drawing for 6331A updated.
109	2311	UKCA added.

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