

# DK ADVARSEL

Følgende operationer bør kun udføres på modulet i spændingsløs tilstand og under ESD-sikre forhold:  
 Installation, ledningsmontage og -demontage.  
 Fejlfinding på modulet.  
 Reparation af modulet må kun foretages af PR electronics A/S.

**ADVARSEL**  
 PR Loop Link programmeringsenheden må ikke benyttes til kommunikation med moduler installeret i Ex-område.  
 Enhederne skal installeres i henhold til den tilhørende installationsvejledning ved montering i eksplosionsfarlig område. System 6300 skal monteres på DIN-skinne efter DIN EN 60715.

# ADVARSEL

**ADVARSEL**  
 Under kalibrering og justering skal måling og tilslutning af eksterne spændinger udføres i henhold til denne installationsvejledning, og teknikeren skal benytte sikkerhedsmæssigt korrekte værktøjer og instrumenter.

# Installation

Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendte med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen, og som vil følge disse.  
 Hvis der er tvivl om modulets rette håndtering, skal der rettes henvendelse til den lokale forhandler eller alternativt direkte til PR electronics A/S.  
 Installation og tilslutning af modulet skal følge landets gældende regler for installation af elektrisk materiale bl.a. med hensyn til ledningstværnsnit, forsikring og placering.  
 Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen og på sideskiltet.

# Rengøring

Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

**PC-programmering af SYSTEM 6300**  
 Modulet konfigureres til den aktuelle opgave ved hjælp af en PC og PR electronics A/S' kommunikationsinterface Loop Link. Det er muligt at konfigurere modulet både med og uden tilsluttet forsynings-spænding, idet kommunikationsinterfacet leverer nødvendig forsyning til opsætningen. Kommunikationsinterfacet er galvanisk isoleret, så PC'ens port er optimalt beskyttet. Kommunikationen er 2-vejs, så modulets opsætning kan hentes ind i PC'en, og opsætningen i PC'en kan sendes til modulet. For de brugere, der ikke selv vil foretage opsætning, kan modulet leveres konfigureret efter oplyst specifikation: indgangstype, måleområde, følerfejlsdetektering og udgangssignal.

# Elektriske specifikationer

Specifikationsområde.....	-40°C til +85°C
Forsyningsspænding, 6331A & 6334A.....	7,2...35 VDC
Max. forbrug, 6331A & 6334A, 1 / 2 kanaler.....	0,8 W / 1,6 W
Forsyningsspænding, 6331B & 6334B.....	7,2...30 VDC
Max. forbrug, 6331B & 6334B, 1 / 2 kanaler.....	0,7 W / 1,4 W
Isolationsspænding, test / arbejds.....	1,5 kVAC / 50 VAC
Kalibreringstemperatur.....	20...28°C
Relativ fugtighed.....	< 95% RH (ikke kond.)
Mål.....	109 x 23,5 x 104 mm
Kapslingsklasse.....	IP20
<b>Indgangstyper:</b>	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC-indgang.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...5000 Ω
Spænding.....	-12...800 mV
<b>Strømodgang:</b>	
Signalområde.....	4...20 mA
Min. signalområde.....	16 mA
Belastningsmodstand, Q.....	≤ (Vforsyn..7,2 V)/0,023
<b>Godkendelser:</b>	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
<b>Overholde myndighedskrav:</b>	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

**DK** Ex-godkendelser **UK** I.S. approvals **FR** Approbations S.I. **DE** Ex-Zulassungen

	ATEX	Area	Installation drawing	IECEX	Area	Installation drawing	FM	Area	Installation drawing	CSA	Area	Installation drawing
<b>6331A &amp; 6334A</b>	KEMA 06ATEX0115 X	2, 22	6331QA02	DEK 14.0047X	2, 22	6331QI02	2D5A7.AX	2 / Div 2	6331QF01			
<b>6331B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01	2D5A7.AX	0, 1, 2 / Div 1	6331QF01	1125003	0, 1, 2 / Div 1	6331QC01
<b>6334B</b>	KEMA 06ATEX0115 X	0, 1, 2, 20, 21, 22, M1	6331QA01	DEK 14.0047X	0, 1, 2, 20, 21, 22, M1	6331QI01						

**DK** Benforbindelser. **UK** Pin connections. **FR** Raccordement des bornes. **DE** Klemmenanschluss.

<b>IECEX</b>	Ex ia IIC T8..T4 Ga Ex ia IIC Da Ex ia Ma IECEX DEK 14.0047X Installation Drawing: 6331Q01	<b>FM</b>	IS, CL I, DIV 1, GP ABCD T6..T4 CL I, Zn B, AEx ia IIC T6..T4 NI, CL I, DIV 2, GP ABCD T6..T4 FM 205A7.AX Entry Installation Drawing: 6331Q01	<b>UK</b>	II G Ex ia IIC T6..T4 Ga II I D Ex ia IIC T6..T4 Da II M Ex ia Ma KEMA 06ATEX0115 X Installation Drawing: 6331QA01	<b>FR</b>	IS, CL I, DIV 1, Gsp. A, D, T6..T4 Ex ia IIC Da T6..T4 CL I, Zone 0, AEx ia IIC Ga T6..T4 Cert. 1125003 Installation Drawing: 6331QC01	<b>DE</b>	RU C-Dx Ex ia IIC 00410
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# 2-WIRE PROGRAMMABLE TRANSMITTER

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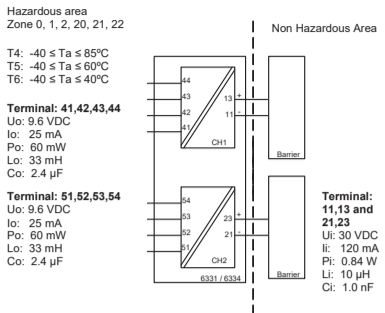
### ATEX Installation drawing 6331QA01-V2R0



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.

ATEX Certificate KEMA 06ATEX 0115X  
 Marking II 1 G Ex ia IIC T6, T4 Ga  
 II 1 D Ex ia IIC Da  
 I M 1 Ex ia I Ma

Standards EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-26 : 2007



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not infallibly galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere the following instructions apply:  
 To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.

Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C  
 T5: -40 ≤ Ta ≤ 60°C  
 T6: -40 ≤ Ta ≤ 40°C

For installation in a potentially explosive dust atmosphere, the following instructions apply:  
 The transmitter shall be mounted in a metal enclosure or equivalent that is providing a degree of protection of at least IP6X according to EN/IEC 60529 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. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C

For installation in a potentially explosive atmosphere in mines, the following instructions apply:

The transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X according to EN/IEC 60529. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C

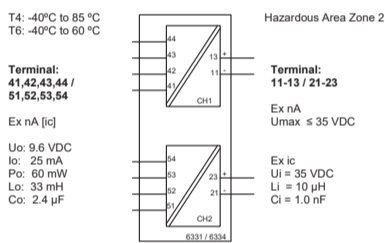
### ATEX Installation drawing 6331QA02-V2R0



For safe installation of 6331A or the 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.

ATEX Certificate KEMA 06 ATEX0115X  
 Marking II 3 G Ex nA [ic] IIC T6, T4 Gc  
 II 3 G Ex ic IIC T6, T4 Gc  
 II 3 D Ex ic IIIC Dc

Standards EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not infallibly galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere, the following instructions apply:  
 If the transmitter is applied in type of protection "Ex nA", it shall be installed in an enclosure that is Ex nA certified according to IEC-EN 60079-15 or "Ex e" certified and suitable for the application and correctly installed. Cable entry devices and blanking elements shall fulfill the same requirements.

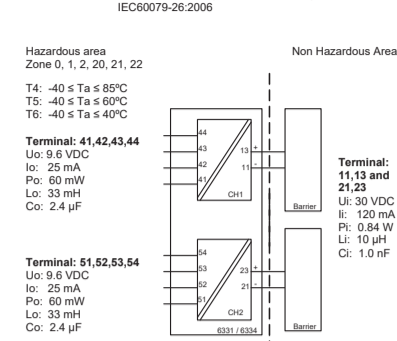
For installation in a potentially explosive dust atmosphere, the following instructions apply:  
 If the transmitter is supplied with an intrinsically safe signal "ic" and interfaces an intrinsically safe signal "ic" (e.g. a passive device), the transmitter shall be mounted in a metal enclosure that provides a degree of protection of at least IP6X according to EN/IEC 60529, and that is suitable for the application. Cable entry devices and blanking elements shall fulfill the same requirements. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

### IECEx Installation drawing 6331QI01-V1R0

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.

IECEx Certificate IECEx DEK 14.0047X  
 Marking Ex ia IIC T6, T4 Ga  
 Ex ia IIC Da  
 Ex ia I Ma

Standards IEC60079-11:2011, IEC60079-0: 2011, IEC60079-26:2006



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not infallibly galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

For installation in a potentially explosive gas atmosphere the following instructions apply:  
 To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.

Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C  
 T5: -40 ≤ Ta ≤ 60°C  
 T6: -40 ≤ Ta ≤ 40°C

For installation in a potentially explosive dust atmosphere, the following instructions apply:  
 The transmitter shall be mounted in a metal enclosure or equivalent that is providing a degree of protection of at least IP6X according to EN/IEC 60529 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. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C

For installation in a potentially explosive atmosphere in mines, the following instructions apply:

The transmitter shall be mounted in an enclosure providing a degree of protection of at least IP6X according to EN/IEC 60529. Cable entries and blanking elements shall be used that are suitable for the application and correctly installed.

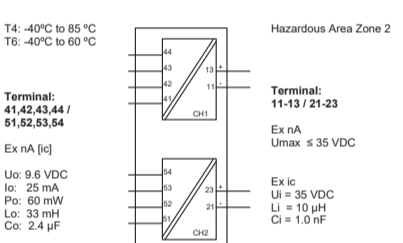
Ambient temperature range:  
 T4: -40 ≤ Ta ≤ 85°C

### IECEx Installation drawing 6331QI02-V2R0

For safe installation of 6331A or the 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.

IECEx Certificate IECEx DEK 14.0047X  
 Marking Ex nA [ic] IIC T6, T4 Gc  
 Ex ic IIC T6, T4 Gc  
 Ex ic IIIC Dc

Standards IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010



#### General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered.

The sensor circuit is not infallibly galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

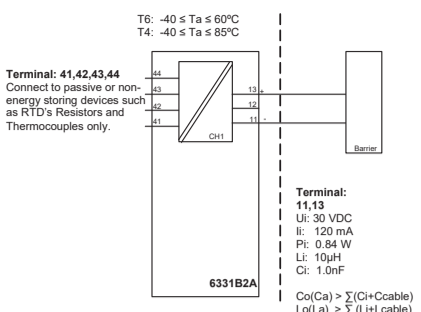
For installation in a potentially explosive gas atmosphere, the following instructions apply:  
 If the transmitter is applied in type of protection "Ex nA", it shall be installed in an enclosure that is Ex nA certified according to IEC-EN 60079-15, or "Ex e" certified and suitable for the application and correctly installed. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation in a potentially explosive dust atmosphere, the following instructions apply:  
 If the transmitter is supplied with an intrinsically safe signal "ic" and interfaces an intrinsically safe signal "ic" (e.g. a passive device), the transmitter shall be mounted in a metal enclosure that provides a degree of protection of at least IP6X according to EN/IEC 60529, and that is suitable for the application. Cable entry devices and blanking elements shall fulfill the same requirements. The surface temperature of the enclosure is equal to the ambient temperature +20K for a dust layer with a maximum thickness of 5 mm.

### CSA Installation drawing 6331QC01 - V1R0

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



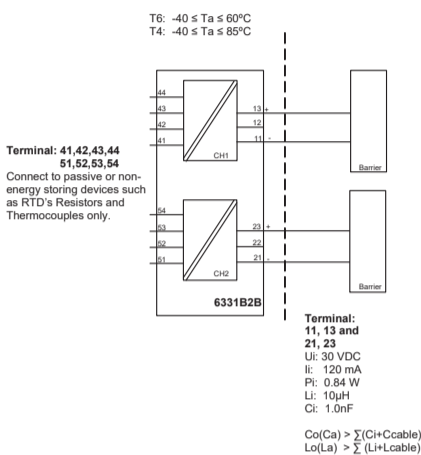
#### Installation notes

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.

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

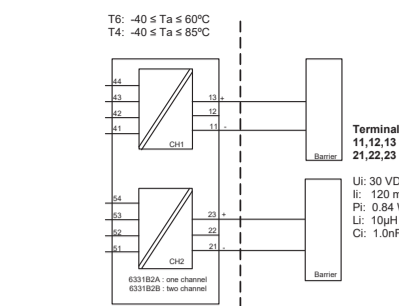


Co(Ca) > Σ(Ci+Ccable)  
 Lo(La) > Σ(Li+Lcable)

### FM Installation Drawing 6331QF01-V1R0

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

Non Hazardous Location



#### Installation notes

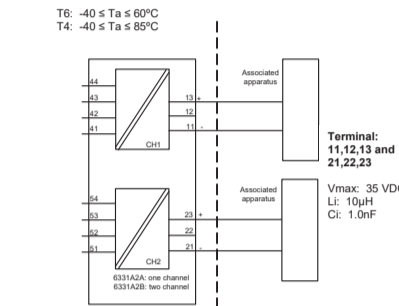
For installation in Class I the Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI-NFPA 70).

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(VMAX) and current Ii(IMAX), 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 Voc or Vi) and current (Io or ISC or It) and the power Po which can be delivered by the barrier. The sum of the maximum unprotected capacitance (Ci) 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 Vi and Io, ISC or It, and Ca and La for barriers are provided by the barrier manufacturer.

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.

### DECLARATION OF CONFORMITY

(6331\_6334DoC\_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:  
**Type: 6331 / 6334**  
**Name: 2-wire programmable transmitter**  
**From serial no.: 161632085 (6331) / 161632109 (6334)**

is in conformity with the following directives and standards:

The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1: 2013**

Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.

The ATEX Directive and later amendments until 2016.04.19: 94/9/EC  
 from 2016.04.20: 2014/34/EU  
**EN 60079-0 : 2012 + A11 : 2013, EN 60079-11 : 2012 and EN 60079-15 : 2010**  
 ATEX certificate: KEMA 06ATEX0115 X

Notified body **DEKRA Certification B.V. (0344)**  
 Heander 1051, 6825 MJ Arnhem  
 P.O. Box 5185, 6802 ED Arnhem  
 The Netherlands

The RoHS2 Directive 2011/65/EU  
**EN 50581: 2012**

Rønde, 21 March 2016

S. Lindemann, CTO  
 Manufacturer's signature