

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.

SIKKERHEDSREGLER

Modtagelse og udpakning
Udpak modulet uden at beskadige det. Kontrollér ved modtagelsen, at modultypen svarer til den bestilte. Indpakningen bør følge modulet, indtil dette er monteret på blivende plads.

Miljøforhold

Undgå direkte sollys, kraftigt støv eller varme, mekaniske rystelser og stød, og udsæt ikke modulet for regn eller kraftig fugt. Om nødvendigt skal opvarmning, ud over de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation.

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 ledningstværsnit, forsikring og placering.
Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen og på sideskiltet.

Kalibrering og justering

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.

Rengøring

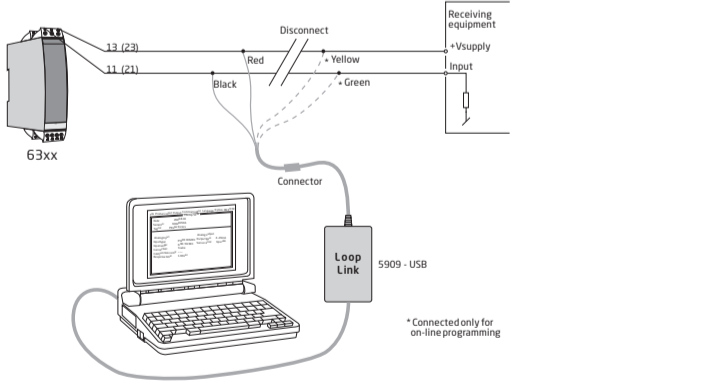
Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

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 kommunikationsinterface leverer nødvendig forsyning til opsettningen. Kommunikationsinterface er galvanisk isoleret, så PC'ens port er optimalt beskyttet. Kommunikationsen er 2-vejs, så modulets opsettning kan hentes ind i PC'en, og opsettningen i PC'en kan sendes til modulet. For de brugere, der ikke selv vil foretage opsettning, kan modulet leveres konfigureret efter oplyst specifikation: indgangstype, måleområde, følerfejlsdetektering og udgangssignal.

Elektriske specifikationer

Specifikationsområde.....	-40°C til +85°C
Forsyningsspænding, 6335A & 6337A.....	8,0...35 VDC
Forsyningsspænding, 6335D & 6337D.....	8,0...30 VDC
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
Indgangstyper:	
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...7000 Ω
Spænding.....	-800...+800 mV
Strømodgang:	
Signalområde.....	4...20 mA
Min. signalområde.....	16 mA
Belastningsmodstand, R _{load}	≤ (V _{supply} -8,0 V)/0,023
Godkendelser:	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Overholdte myndighedskrav:	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU



- DK** Loop Link er et kommunikationsinterface, der er nødvendigt for programmering af 63xx. Loop Link må ikke benyttes til kommunikation med moduler installeret i Ex-område.
- UK** Loop Link is a communications interface that is needed for programming 63xx. Loop Link is not approved for communication with devices installed in hazardous (Ex) areas.
- FR** Loop Link est un kit de programmation permettant de programmer les 63xx. Loop Link ne doit pas être utilisé pour communication avec des modules installés en zone dangereuse.
- DE** Loop Link ist eine Schnittstelle zur Programmierung des 63xx. Loop Link darf nicht zur Kommunikation mit Geräten, die in Ex-gefährdeten Bereichen installiert sind, benutzt werden.

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
6335A & 6337A	KEMA 09ATEX0148 X	2, 22	6335QA02	KEM 10.0084X	2, 22	6335QI02						
6335D & 6337D	KEMA 09ATEX0148 X	0, 1, 2, 20, 21, 22, M1	6335QA01	KEM 10.0084X	0, 1, 2, 20, 21, 22, M1	6335QI01	2D5A7-AX	0, 1, 2 / Div 1	6335QF01	1125003	0, 1, 2 / Div 1	6335QC02

UK
WARNING

The following operations should only be carried out on a disconnected device and under ESD safe conditions:
General mounting, connection and disconnection of wires.
Troubleshooting the device.
Repair of the device must be done by PR electronics A/S only.

WARNING

Do not use the Loop Link programming interface to program the units in Ex area. For installation in classified area the modules must be installed according to the appropriate installation drawings. SYSTEM 6300 must be mounted on a DIN rail according to DIN EN 60715.

SAFETY INSTRUCTIONS

Receipt and unpacking
Unpack the device without damaging it. The packing should always follow the device until this has been permanently mounted. Check at the receipt of the device whether the type corresponds to the one ordered.

Environment

Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock, as well as rain and heavy moisture. If necessary, heating in excess of the stated limits for ambient temperatures should be avoided by way of ventilation.

Mounting

Only qualified technicians who are familiar with the technical terms, warnings, and instructions in this installation guide and who are able to follow these should connect the device.
Should there be any doubt as to the correct handling of the device, please contact your local distributor or, alternatively, PR electronics A/S.
Mounting and connection of the device should comply with national legislation for mounting of electric materials, i.e. wire cross section, protective fuse, and location. Descriptions of input / output and supply connections are shown in the product manual and on the side label.

Calibration and adjustment

During calibration and adjustment, the measuring and connection of external voltages must be carried out according to the specifications of this installation guide. The technician must use tools and instruments that are safe to use.

Cleaning

When disconnected, the device may be cleaned with a cloth moistened with distilled water.

PC programming of SYSTEM 6300

The device is configured to the present task by way of a PC and PR electronics A/S' communications interface Loop Link. The device can be configured with or without a connected supply voltage as the communications interface supplies the necessary voltage to the set-up. The communications interface is galvanically isolated to protect the PC port. Communication is 2-way to allow the retrieval of the device set-up into the PC and to allow the transmission of the PC set-up to the device. For users who do not wish to do the set-up themselves, the device can be delivered configured according to customer specifications: input type, measurement range, sensor error detection, and output signal.

Electrical specifications

Specifications range.....	-40°C to +85°C
Supply voltage, 6335A & 6337A.....	8,0...35 VDC
Supply voltage, 6335D & 6337D.....	8,0...30 VDC
Isolation voltage, test / oper.....	1,5 kVAC / 50 VAC
Calibration temperature.....	20...28°C
Relative humidity.....	< 95% RH (non-cond.)
Dimensions.....	109 x 23,5 x 104 mm
Protection degree.....	IP20
Input types:	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC input.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...7000 Ω
Voltage.....	-800...+800 mV
Current output:	
Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load resistance, R _{load}	≤ (V _{supply} -8,0 V)/0,023
Approvals:	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Observed authority requirements:	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

Lin. R.....	0 Ω...7000 Ω
Voltage.....	-800...+800 mV
Current output:	
Signal range.....	4...20 mA
Min. signal range.....	16 mA
Load resistance, R _{load}	≤ (V _{supply} -8,0 V)/0,023
Approvals:	
EAC.....	TR-CU 020/2011
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Observed authority requirements:	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Observed authority requirements:	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Observed authority requirements:	
EMC.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

FR
AVERTISSEMENT

Les opérations suivantes doivent être effectuées avec le module débranché et dans un environnement exempt de décharges électrostatiques (ESD):
Montage général, raccordement et débranchement de fils et recherche de pannes sur le module.
Seule PR electronics SARL est autorisée à réparer le module.

AVERTISSEMENT

Ne pas utiliser le kit de programmation "Loop Link" en zone classée dangereuse. A la réception du module, vérifiez que le type de module reçu correspond à celui que vous avez commandé.
Il convient de monter l'appareil SYSTEME 6300 sur un rail DIN en se conformant à la norme DIN EN 60715.

CONSIGNES DE SECURITE

Réception et déballage
Déballage le module sans l'endommager. Il est recommandé de conserver l'emballage du module tant que ce dernier n'est pas définitivement monté.
A la réception du module, vérifiez que le type de module reçu correspond à celui que vous avez commandé.

Environnement

N'exposez pas votre module aux rayons directs du soleil et choisissez un endroit à humidité modérée et à l'abri de la poussière, des températures élevées, des chocs et des vibrations mécaniques et de la pluie. Le cas échéant, des systèmes de ventilation permettent d'éviter qu'une pièce soit chauffée au-delà des limites prescrites pour les températures ambiantes.

Montage

Il est conseillé de réserver le raccordement du module aux techniciens qualifiés qui connaissent les termes techniques, les avertissements et les instructions de ce guide et qui sont capables d'appliquer ces dernières.

Si vous avez un doute quelconque quant à la manipulation du module, veuillez contacter votre distributeur local. Vous pouvez également vous adresser à : PR electronics SARL.
Le montage et le raccordement du module doivent être conformes à la législation nationale en vigueur pour le montage de matériaux électriques, par exemple, diamètres des fils, fusibles de protection et implantation des modules. Les connexions des alimentations et des entrées / sorties sont décrites dans le manuel du produit et sur l'étiquette de la face latérale du module.

Etalonnage et réglage
Lors des opérations d'étalonnage et de réglage, il convient d'effectuer les mesures et les connexions des tensions externes en respectant les spécifications mentionnées dans ce guide. Les techniciens doivent utiliser des outils et des instruments pouvant être manipulés en toute sécurité.

Maintenance et entretien

Une fois le module hors tension, prenez un chiffon imbibé d'eau distillée pour le nettoyer.

Programmation par PC du SYSTEME 6300

Le module peut être programmé en fonction d'une application donnée à partir d'un PC et le kit de programmation Loop Link de PR electronics A/S. Le module peut être programmé sans être alimenté car l'interface de communication fournit l'alimentation nécessaire pour la configuration. L'interface de communication est dotée d'une isolation galvanique pour protéger le port du PC. La communication est bidirectionnelle. Cela permet non seulement la programmation du module mais également la récupération d'une configuration existante ainsi que la lecture du numéro de série et du repère. Le module peut être livré déjà programmé, si l'utilisateur le souhaite.

Spécifications

Plage de température.....	-40°C à +85°C
Tension d'alimentation, 6335A & 6337A.....	8,0...35 Vcc
Tension d'alimentation, 6335D & 6337D.....	8,0...30 Vcc
Tension d'isolation test/opér.....	1,5 kVca / 50 Vca
Température d'étalonnage.....	20...28°C
Humidité relative.....	< 95% HR (sans cond.)
Dimensions.....	109 x 23,5 x 104 mm
Degré de protection.....	IP50/IP20
Types d'entrée:	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TC input.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...7000 Ω
Voltage.....	-800...+800 mV
Sortie courant:	
Gamme de signal.....	4...20 mA
Plage de signal min.....	16 mA
Résistance de charge, R _{load}	≤ (V _{vers} -8,0 V)/0,023
Approbations:	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Compatibilité avec les normes:	
CEM.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

Plage de température.....	-40°C bis +85°C
Versorgungsspannung, 6335A & 6337A.....	8,0...35 VDC
Versorgungsspannung, 6335D & 6337D.....	8,0...30 VDC
Isolationsspannung, Test / Betrieb.....	1,5 kVAC / 50 VAC
Kalibreringstemperatur.....	20...28°C
Luftfeuchtigkeit.....	< 95% RF (nicht kond.)
Maß.....	109 x 23,5 x 104 mm
Schutzart.....	IP50/IP20
Eingangs-Typen:	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TE-Eingang.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...7000 Ω
Spannung.....	-800...+800 mV
Stromausgang:	
Signalbereich.....	4...20 mA
Min. Signalbereich.....	16 mA
Belastungswiderstand, R _{load}	≤ (V _{vers} -8,0 V)/0,023
Zulassungen:	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Eingehaltene Behördenvorschriften:	
EMV.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Eingehaltene Behördenvorschriften:	
EMV.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Eingehaltene Behördenvorschriften:	
EMV.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

- DK** Programmering med HART-modem.
- UK** Programming with HART modem.
- FR** Programmation par modem HART.
- DE** Programmierung mit HART-Modem.

DE
WARNUNG

Folgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnissen durchgeführt werden: Installation, Montage und Demontage von Leitungen. Fehlersuche im Gerät und Reparaturen des Gerätes dürfen nur von PR electronics A/S vorgenommen werden.

WARNUNG

Benutzen Sie die Programmierschnittstelle Loop Link nicht im Ex Bereich. Zur Montage in klassifizierten Zonen müssen die Geräte nach den dazugehörigen Einbauezeichnungen installiert werden.
Das System 6300 muss auf eine DIN-Schiene nach DIN EN 60715 montiert werden.

SICHERHEITSGEGLER

Empfang und Auspacken
Packen Sie das Gerät aus, ohne es zu beschädigen, und kontrollieren Sie beim Empfang, ob der Gerätetyp Ihrer Bestellung entspricht. Die Verpackung sollte beim Gerät bleiben, bis dieses am endgültigen Platz montiert ist.

Umgebungsbedingungen

Direkte Sonneneinstrahlung, starke Staubentwicklung oder Hitze, mechanische Erschütterungen und Stöße sind zu vermeiden; das Gerät darf nicht Regen oder starker Feuchtigkeit ausgesetzt werden. Bei Bedarf muss eine Erwärmung, welche die angegebenen Grenzen für die Umgebungstemperatur überschreitet, mit Hilfe eines Kühlgebläses verhindert werden.

Installation

Das Gerät darf nur von qualifizierten Technikern angeschlossen werden, die mit den technischen Ausdrücken, Warnungen und Anweisungen in dieser Installationsanleitung vertraut sind und diese befolgen. Sollten Zweifel bezüglich der richtigen Handhabung des Gerätes bestehen, sollte man mit dem Händler vor Ort Kontakt aufnehmen. Sie können aber auch direkt mit PR electronics GmbH Kontakt aufnehmen. Die Installation und der Anschluss des Gerätes haben in Übereinstimmung mit den geltenden Regeln des jeweiligen Landes bez. der Installation elektrischer Apparaturen zu erfolgen, u.a. bezüglich Leitungsschnitt, (elektrischer) Vor-Absicherung und Positionierung.
Eine Beschreibung von Eingangs- / Ausgangs- und Versorgungsanschlüssen befindet sich im Produktmanual und auf dem Typenschild.

Kalibrierung und Justierung

Während der Kalibrierung und Justierung sind die Messung und der Anschluss externer Spannungen entsprechend dieser Installationsanleitung auszuführen und der Techniker muss hierbei sicherheitsmäßig einwandfreie Werkzeuge und Instrumente benutzen.

Reinigung

Das Gerät darf in spannungslosem Zustand mit einem Lappen gereinigt werden, der mit destilliertem Wasser leicht angefeuchtet ist.

PC-Programmierung des Systems 6300

Das Gerät wird für die jeweilige Aufgabe mit Hilfe eines PCs und PR electronics A/S' Kommunikationsschnittstelle Loop Link konfiguriert. Es ist möglich, das Gerät sowohl mit als auch ohne angeschlossene Versorgungsspannung zu konfigurieren, da die Kommunikationsschnittstelle die notwendige Versorgung für die Einstellung liefert. Die Kommunikationsschnittstelle ist galvanisch isoliert, sodass der Anschluss des PCs optimal geschützt ist. Die Kommunikation erfolgt in beiden Richtungen, sodass die Einstellung des Gerätes in den PC geholt, und die Einstellung im PC an das Gerät gesandt werden kann. Für diejenigen Anwender, welche die Einstellung nicht selbst vornehmen wollen, kann das Gerät nach folgenden Kundenspezifikationen konfiguriert geliefert werden: Eingangstyp, Messbereich, Fehlererkennung und Ausgangssignal.

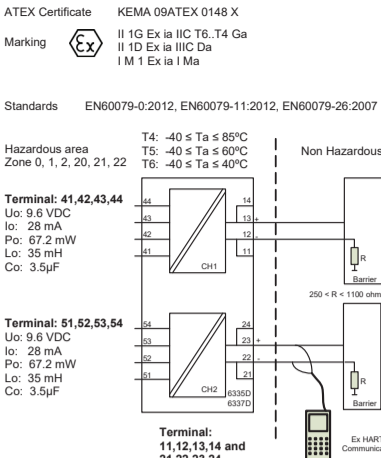
Elektrische Daten

Spezifikationsbereich.....	-40°C bis +85°C
Versorgungsspannung, 6335A & 6337A.....	8,0...35 VDC
Versorgungsspannung, 6335D & 6337D.....	8,0...30 VDC
Isolationsspannung, Test / Betrieb.....	1,5 kVAC / 50 VAC
Kalibreringstemperatur.....	20...28°C
Luftfeuchtigkeit.....	< 95% RF (nicht kond.)
Maß.....	109 x 23,5 x 104 mm
Schutzart.....	IP50/IP20
Eingangs-Typen:	
Pt100.....	-200°C...+850°C
Ni100.....	-60°C...+250°C
TE-Eingang.....	B, E, J, K, L, N, R, S, T, U, W3, W5, Lr
Lin. R.....	0 Ω...7000 Ω
Spannung.....	-800...+800 mV
Stromausgang:	
Signalbereich.....	4...20 mA
Min. Signalbereich.....	16 mA
Belastungswiderstand, R _{load}	≤ (V _{vers} -8,0 V)/0,023
Zulassungen:	
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
Eingehaltene Behördenvorschriften:	
EMV.....	2014/30/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

Spezifikationsbereich.....	-40°C bis +85°C
Versorgungsspannung, 6335A & 6337A.....	8,0...35 VDC
Versorgungsspannung, 6335D & 6337D.....	

ATEX Installation drawing 6335QA01-V4R0

For safe installation of 6335D or 6337D 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.



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.

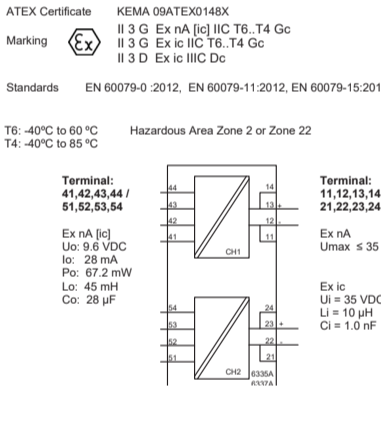
For installation in a potentially explosive gas atmosphere the following instructions apply:
To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.
Ambient temperature 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 6335QA02-V5R0

For safe installation of 6335A or 6337A 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.



General installation instructions

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

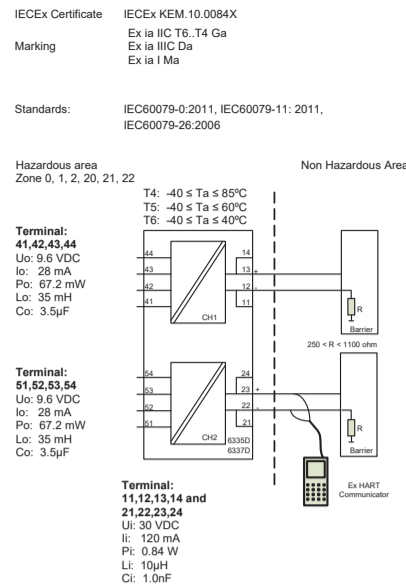
The sensor circuit is not infallibly galvanic isolated from the supply output circuit. However, the galvanic isolation between the circuits is capable of withstanding a test voltage of 500Vac during 1 minute.

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 6335QI01-V4R0

For safe installation of 6335D or 6337D 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.



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.

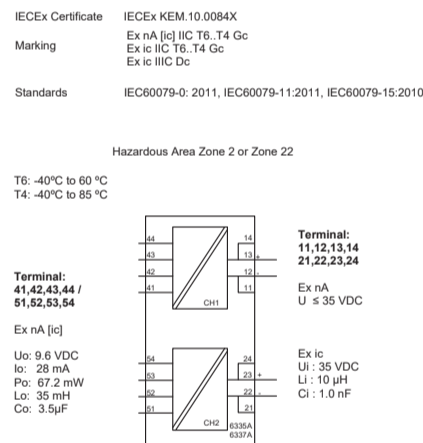
For installation in a potentially explosive gas atmosphere the following instructions apply:
To avoid risk of ignition due to electrostatic discharge (ESD) the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP20 according to EN/IEC 60529.
Ambient temperature 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 6335QI02-V4R0

For safe installation of 6335A or 6337A 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.



General installation instructions

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

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.

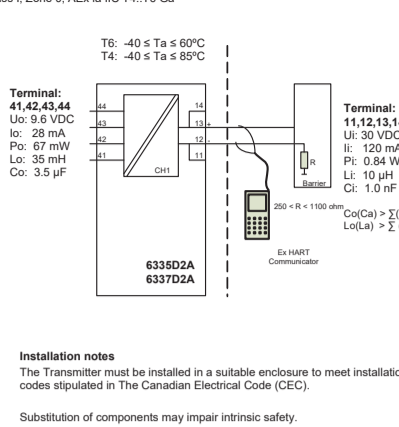
Cable entry devices and blanking elements shall fulfill the same requirements

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 6335QC02-V4R0

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



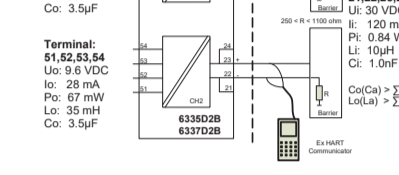
Installation notes

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



Installation notes

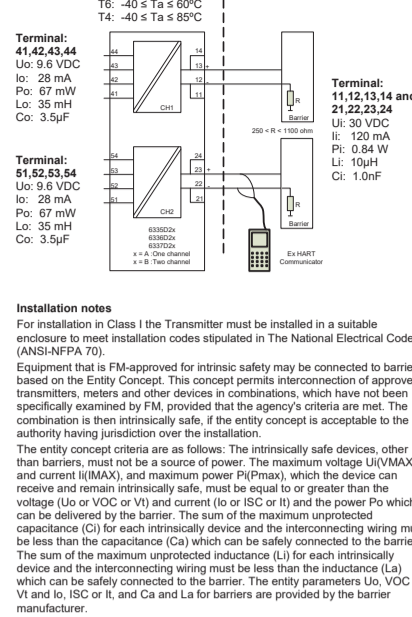
The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

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

FM Installation drawing 6335QF01-V6R0

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

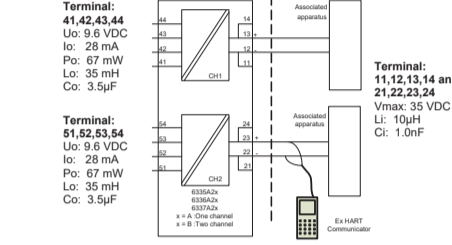


Installation notes

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 Ii) 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 Ii, and Ca and La for barriers are provided by the barrier manufacturer.



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

(6335_6337DoC_101)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:
Type: 6335 / 6337
Name: 2-wire HART transmitter
From serial no.: 150951186 (6335) / 150950564 (6337)

is in conformity with the following directives and standards:
The EMC Directive and later amendments
until 2016.04.19: 2004/108/EC
from 2016.04.20: 2014/30/EU
EN 61326-1:2013

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, EN 60079-11:2012, EN 60079-15:2010
and EN 60079-26:2007
ATEX certificate: KEMA 09ATEX0148 X

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

The RoHS2 Directive 2011/65/EU
The product has been manufactured according to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Rønde, 21 March 2016

Stig Lindemann, CTO
Manufacturer's signature