

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 modulet installeret i Ex-område.
Enhederne skal installeres i henhold til den tilhørende installationsvejledning ved monterig i eksplosionsfarlig område.
System 6300 skal monteres på DIN-skinne efter DIN EN 60715.

SIKKERHEDSREGLER

Motagelse 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 støj 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 materiel bl.a. med hensyn til ledningstværsnit, forskring 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 kommunikationsinterfacet leverer nødvendig forsyning til opsætningen. Kommunikationsinterfacet er galvanisk isoleret, så PC'en ser 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

Table with specifications: Forsyningsspænding, Forsyningsspænding, Isolationsspænding, test / arbejds-, Kalibreringstemperatur, Relativ fugtighed, Mål, Kapslingsklasse, Indgangstyper, Pt25..Pt1000, Ni25..Ni1000, Cu10..Cu1000, TC, Lin. R., Potentiometer, Strom, Spænding, Bus-tilslutning, Godkendelser, EAC, EAC Ex, Overholdte myndighedskrav: EMC, ATEX, RoHS.

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

Table with specifications: Specifications range, Supply voltage, 6350A, 6350B, Internal consumption per channel, Isolation voltage, operation, Calibration temperature, Relative humidity, Dimensions, Protection degree, Input types, Pt25..Pt1000, Ni25..Ni1000, Cu10..Cu1000, TC, Lin. R., Potentiometer, Current, Voltage, Output: Bus connection, Approvals: EAC, EAC Ex, Observed authority requirements: EMC, ATEX, RoHS.

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 Ex. Pour des installations en zone classée, les modules doivent être monté conformément aux plans appropriés. 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

Déballiez 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 Ex. Pour des installations en zone classée, les modules doivent être monté conformément aux plans appropriés. Il convient de monter l'appareil SYSTEME 6300 sur un rail DIN en se conformant à la norme DIN EN 60715.

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 répère. Le module peut être livré déjà programmé, si l'utilisateur le souhaite.

Spécifications

Table with specifications: Plage de température, Tension d'alimentation, 6350A, 6350B, Tension d'isolation test/opér., Température d'étalonnage, Humidité relative, Dimensions, Degré de protection, Types d'entrée: Pt25..Pt1000, Ni25..Ni1000, Cu10..Cu1000, TC, Résistance linéaire, Potentiomètre, Tension, Sortie: Connexion bus, Approbations: EAC, EAC Ex, Compatibilité avec les normes: CEM, ATEX, RoHS.

Folgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnisse 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.

SICHERHEITSGELTEN

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 Staubeentwicklung 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 angebenen 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 Leitungsquerschnitt, (elektrischer) Vor-Absicherung und Positionierung.
Eine Beschreibung von Eingangs- / Ausgangs- und Versorgungsanschlüssen befindet sich im Produkt-manual 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 sicherheitsmäßigen 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

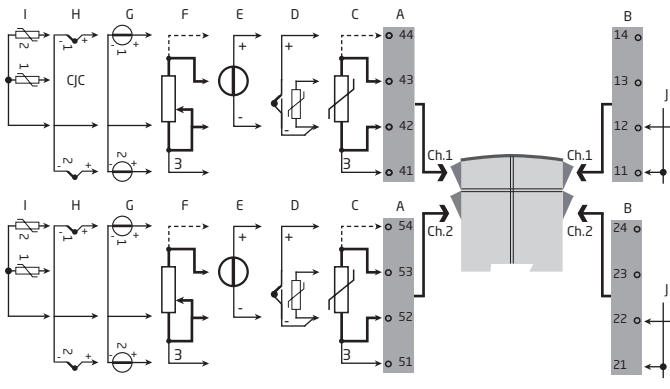
Das Gerät wird für die jeweilige Aufgabe mit Hilfe eines PCs und PR electronics A/S Kommunikations-schnittstelle Loop Link konfiguriert. Es ist möglich, das Gerät sowohl mit als auch ohne angeschlossene Versorgungsspannung zu konfigurieren, da die Kommunikationsschnittstelle die notwendige Versorgung 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, Fehler-lektererkennung und Ausgangssignal.

Elektrische Daten

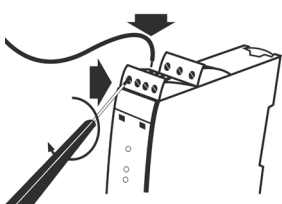
Table with specifications: Spezifikationsbereich, Versorgungsspannung, 6350A, 6350B, Isolationsspannung, Test / Betrieb, Kalibrierungstemperatur, Luftfeuchtigkeit, Maß, Schutzart, Eingangs-Typen: Pt25..Pt1000, Ni25..Ni1000, Cu10..Cu1000, TE, Lin. R., Potentiometer, Strom, Spannung, Ausgang: Bus-Verbindung, Zulassungen: EAC, EAC Ex, Eingehaltene Behördenvorschriften: EMV, ATEX, RoHS.

- DK Installationsvejledningen for teknikere omfatter følgende produkter: 6350A og 6350B.
- UK The installation guide for technical personnel covers the following products: 6350A and 6350B.
- FR Le guide d'installation pour le personnel qualifié couvre les produits suivants: 6350A et 6350B.
- DE Die Installationsanleitung für Techniker umfasst die folgenden Produkte: 6350A und 6350B.

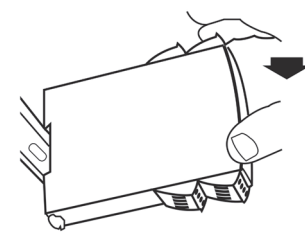
Table mapping input/output labels (A-F, G-J) to signal types (Indgangssignaler, Udgangssignaler, TC, Spænding, Lin R-Ω) and their equivalents in other languages (UK, FR, DE).



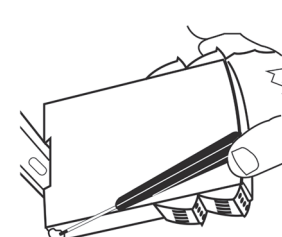
- DK Alle tilslutningsmuligheder findes i modulets manual.
- UK For full overview of connections, refer to manual.
- FR Pour un aperçu complet des connexions, voir le manuel.
- DE Für vollständige Übersicht über Anschlüsse, siehe Manual.



- DK Ledningskvadrat (min...max.) 0,13...2,08 mm² / AWG 25...14 firkoret ledning. Klemskruetiltspændingsmoment 0,5 Nm.
- UK Wire size (min...max.) 0.13...2.08 mm² / AWG 25...14 stranded wire. Screw terminal torque 0.5 Nm.
- FR Taille des fils (min...max.) 0,13...2,08 mm² / AWG 25...14 fils multibrins. Pression max. avant déformation de la vis 0,5 Nm.
- DE Leitungsquerschnitt (min...max.) 0,13...2,08 mm² / AWG 25...14 Litzen draht. Klemmschraubenanzugsmoment 0,5 Nm.



- DK Montering på DIN-skinne.
- UK Mounting on DIN rail.
- FR Montage sur rail DIN.
- DE Montage auf DIN-Schiene.



- DK Frigørelse fra DIN-skinne
Husk først at demontere tilslutningsklemmerne med farlig spænding. Modulet frigøres fra DIN-skinnen ved at løfte i den nederste lås.
- UK Demounting from DIN rail
First, remember to demount the connectors with hazardous voltages. Detach the device from the DIN rail by lifting the bottom lock.
- FR Démontage du rail DIN
Tout d'abord, n'oubliez pas de démonter les connecteurs ou régner des tensions dangereuses. Débloquez le verrou inférieur pour dégager le module du rail DIN.
- DE Lösen von DIN-Schiene
Zunächst ist gefährliche Spannung von den Anschlussklemmen zu trennen. Das Gerät wird von der DIN-Schiene gelöst, indem man den unteren Verschluss löst.

- DK Sideskilt
- UK Side label
- FR Etiquette
- DE Typenschild

PR electronics A/S, Lerbakken 10, 8410 Rønde
Phone +45 8637 2677, Denmark, 63505205 0344
CE mark and 6350B2B
Table with technical data for CH1 and CH2 (11-22 com, 13-24 input, 42-44 input, 51-54 input)
IECEx, FM, CSA, ATEX, RoHS compliance information
PROFIBUS PA / FOUNDATION FIELDBUS TRANSMITTER

- DK Dokumentation, godkendelser og yderligere information findes på internettet på www.prelectronics.dk
- UK Documentation, permits and other information can be found on the internet at www.prelectronics.com
- FR La documentation et toute autre information peuvent être trouvées sur l'Internet sur notre site: www.prelectronics.fr
- DE Dokumentationen, Zulassungen und andere Informationen können auf unserer Internet-Seite unter www.prelectronics.de gefunden und abgerufen werden.

DECLARATION OF CONFORMITY
(6350DoC_101)

As manufacturer PR electronics A/S, Lerbakken 10, DK-8410 Rønde hereby declares that the following products:

Table with columns: Type, Name, From serial no., listing product details: Type: 6350, Name: PROFIBUS PA/FOUNDATION Fieldbus transmitter, From serial no.: 151770053

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 + A11 : 2013, EN 60079-11 : 2012 and EN 60079-15 : 2010
ATEX certificate: KEMA 03ATEX1012 X

The RoHS2 Directive 2011/65/EU

KEMA Quality B.V. (0344) Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands

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.

Notified body
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ATEX Installation drawing 6350QA01-V5R0

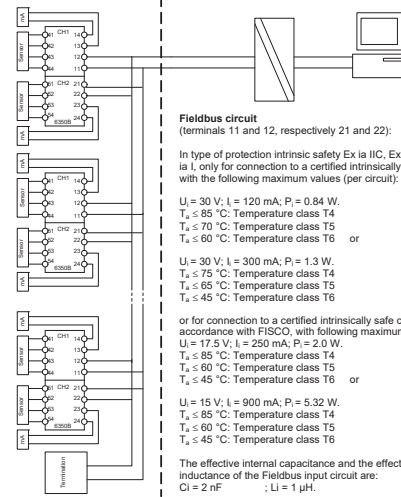
For safe installation of 6350B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

ATEX Certificate: KEMA 03ATEX 1012 X
Marking: II 1 G Ex ia IIC T6...T4 Ga
Standards: EN 60079-0 : 2012, EN 60079-11 : 2012

General installation instructions

Electrostatic charges on the transmitter enclosure shall be avoided. Install in pollution degree 2 or better. Profibus / Foundation Fieldbus Transmitter Type 6350B2x, for rail mounting, with one or two independent channels, converts the measurement signals of temperature sensors, mV signals or mA signals into a Profibus PA fieldbus or to a Foundation Fieldbus.

Hazardous Location Zone 0, 1, 2, 20, 21, 22

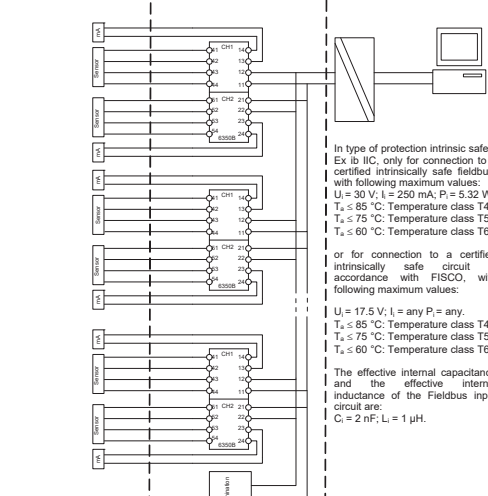


Fieldbus circuit (terminals 11 and 12, respectively 21 and 22): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Hazardous area: Zone 0 Hazardous area: Zone 1 Non Hazardous area



In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values: Uo = 30 V; Io = 250 mA; Po = 5.32 W...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

ATEX Installation drawing 6350QA02-V4R0

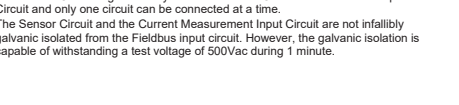
For safe installation of 6350A the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

ATEX Certificate: KEMA 03ATEX 1012 X
Marking: II 3 G Ex nA [ic] IIC T6...T4 Gc
Standards: EN 60079-0 : 2012, EN 60079-11 : 2012, EN 60079-15

General installation instructions

To avoid risk of ignition during installation and maintenance appropriate safety measures against electrostatic discharge (ESD) are to be considered. Install in pollution degree 2 or better. Profibus / Foundation Fieldbus Transmitter Type 6350A2x, for rail mounting, with one or two independent channels, converts the measurement signals of temperature sensors, mV signals or mA signals into a Profibus PA fieldbus or to a Foundation Fieldbus.

Hazardous area: Zone 0 Hazardous area: Zone 1 Non Hazardous area



Fieldbus Input Circuits (terminals 11 and 12, respectively 21 and 22): In type of protection intrinsic safety Ex ia IIC or Ex ia IIC, for connection to an intrinsically safe circuit, with the following maximum values (per circuit): Uo = 5.7 V; Io = 8.4 mA; Po = 12 mW; Co = 40 µF; Lo = 200 mH...

IECEx Installation drawing 6350QI01-V2R0

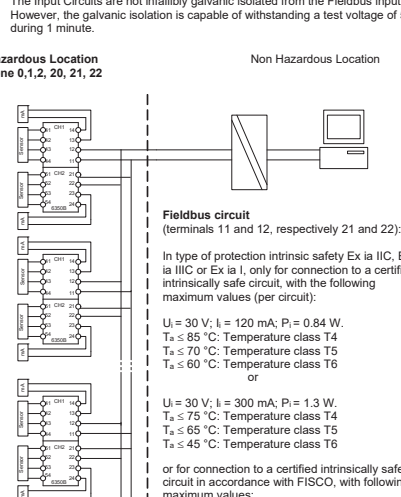
For safe installation of 6350B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

IECEx Certificate: DEK 14.0071X
Marking: Ex ia IIC T6...T4 Ga
Standards: IEC60079-11:2011, IEC60079-0: 2011

General installation instructions

Electrostatic charges on the transmitters enclosure shall be avoided. Install in pollution degree 2 or better. Profibus / Foundation Fieldbus Transmitter Type 6350B2x, for rail mounting, with one or two independent channels, converts the measurement signals of temperature sensors, mV signals or mA signals into a Profibus PA fieldbus or to a Foundation Fieldbus.

Hazardous Location Zone 0, 1, 2, 20, 21, 22

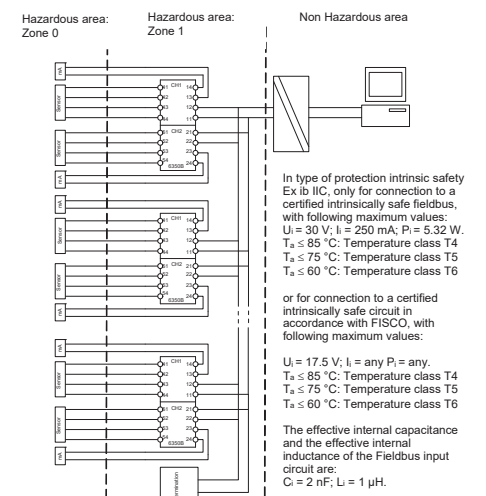


Fieldbus circuit (terminals 11 and 12, respectively 21 and 22): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Hazardous area: Zone 0 Hazardous area: Zone 1 Non Hazardous area



In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values: Uo = 30 V; Io = 250 mA; Po = 5.32 W...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

FM/CSA Installation Drawing 6350QE02-V3R0

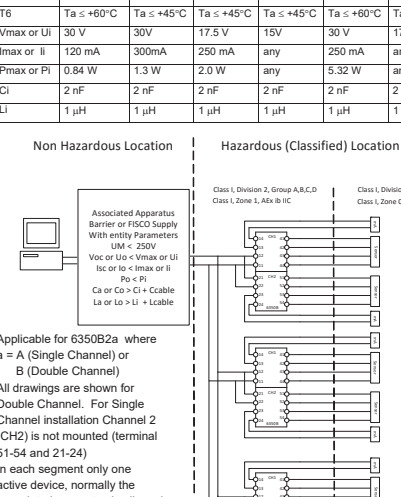
For safe installation of 6350B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

IECEx Certificate: DEK 14.0071X
Marking: Ex nA [ic] IIC T6 Gc
Standards: IEC 60079-0 : 2011, IEC 60079-11 : 2011, IEC 60079-15 : 2010

General installation instructions

Electrostatic charges on the transmitter enclosure shall be avoided. Install in pollution degree 2 or better. Profibus / Foundation Fieldbus Transmitter Type 6350A2x, for rail mounting, with one or two independent channels, converts the measurement signals of temperature sensors, mV signals or mA signals into a Profibus PA fieldbus or to a Foundation Fieldbus.

Hazardous (Classified) Location

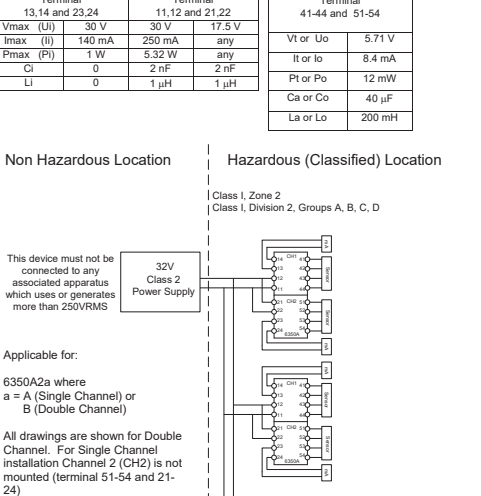


Fieldbus circuit (terminals 11 and 12, respectively 21 and 22): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

Hazardous (Classified) Location



In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values: Uo = 30 V; Io = 250 mA; Po = 5.32 W...

Sensor Circuit (terminals 41...44, respectively 51...54): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, with following maximum values:

Current Measurement Input Circuit (terminals 13 and 14, respectively 23 and 24): In type of protection intrinsic safety Ex ia IIC, Ex ia IIC or Ex ia I, only for connection to a certified intrinsically safe circuit...

IECEx Installation drawing 6350QI02-V2R0

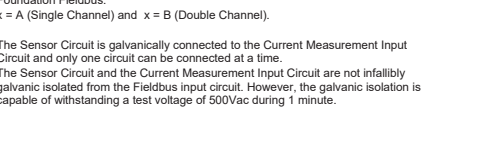
For safe installation of 6350A the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

IECEx Certificate: DEK 14.0071X
Marking: Ex nA [ic] IIC T6 Gc
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. Install in pollution degree 2 or better. Profibus / Foundation Fieldbus Transmitter Type 6350A2x, for rail mounting, with one or two independent channels, converts the measurement signals of temperature sensors, mV signals or mA signals into a Profibus PA fieldbus or to a Foundation Fieldbus.

Hazardous (Classified) Location



Fieldbus Input Circuits (terminals 11 and 12, respectively 21 and 22): In type of protection intrinsic safety Ex ia IIC or Ex ia IIC, for connection to an intrinsically safe circuit, with the following maximum values (per circuit): Uo = 5.7 V; Io = 8.4 mA; Po = 12 mW; Co = 40 µF; Lo = 200 mH...

Installation notes:

This drawing applies to models 6350A2a and 6350B2a Where: a = A (Single Channel) or B (Double Channel)

All drawings are shown as Double Channel. For Single Channel installation Channel 2 (CH2) is not mounted (terminal 51-54 and 21-24)

For installation in the US the 6350 must be installed according to National Electrical Code (ANSI-NFPA 70). For installation in Canada the transmitter must be installed in a suitable enclosure to meet installation codes stipulated in the Canadian Electrical Code (CEC).

The entity concept Equipment that is FM / CSA -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 / CSA, provided that the agency's criteria are met.

The maximum voltage Uo (Vmax) and current Io (Imax) and maximum power Pmax, which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (Uo or Voc or Vt) and current (Io or ISC or It) and the power Po which can be delivered by the barrier.

The FISCO rules The FISCO Concept allows the interconnection of intrinsically safe apparatus to associated apparatus not specifically examined in such combination. The criterion for such interconnection is that the voltage (Vmax), the current (Imax) and the power (Pi) which intrinsically safe apparatus can receive and remain intrinsically safe, considered as a system when: Uo or Voc or Vt ≤ Vmax, Io or ISC or It ≤ Imax, Po ≤ Pi.

In each I.S. Fieldbus segment only one active source, normally the associated apparatus, is allowed to provide the necessary power for the Fieldbus system. The allowed voltage (Uo, Voc, Vt) of the associated apparatus used to supply the bus must be limited to the range of 14V d.c. to 24V d.c.

The cable used to interconnect the devices needs to comply with the following parameters:

- Loop resistance R: 15...150 Ω/KM
Inductance per unit length L': 0.4...1mH/km
Capacitance per unit length C': 80...200 nF/km
C = C' line/line + C' line/screen, if the screen is connected to one line

System evaluation The number of passive devices like transmitters, actuators, connected to a single bus segment is not limited due to I.S. reasons. Furthermore, if the above rules are respected, the inductance and capacitance of the cable need not to be considered and will not impair the intrinsic safety of the installation.

Installation Notes For FISCO and Entity Concepts:

- 1. The Intrinsic Safety Entity concept allows the interconnection of FM / CSA Approved Intrinsically safe devices (Div 1 or Zone 0 or Zone 1) and non-incendive apparatus (Div 2 or Zone 2), with entity parameters not specifically examined in combination as a system when: Uo or Voc or Vt ≤ Vmax, Io or ISC or It ≤ Imax, Po ≤ Pi.
2. The Intrinsic Safety FISCO concept allows the interconnection of FM / CSA Approved Intrinsically safe devices with FISCO parameters not specifically examined in combination as a system when: Uo or Voc or Vt ≤ Vmax, Io or ISC or It ≤ Imax, Po ≤ Pi.
3. Dust-tight conduit seals must be used when installed in Class II and Class III environments.
4. Control equipment connected to the Associated Apparatus must not use or generate more than 250 Vrms or Vdc.
5. Installation should be in accordance with ANSI/ISA RP12.6 (except chapter 5 for FISCO installations) 'Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations' and the National Electrical Code®(ANSI/NFPA 70) Sections 504 and 505.
6. The configuration of associated Apparatus must be Factory Mutual Research or CSA Approved under the associated concept.
7. Associated Apparatus manufacturer's installation drawing must be followed when installing this equipment.
8. The 6350 Series are Approved for Class I, Zone 0, applications. If connecting AEx(b) associated Apparatus or AEx Ib I.S. Apparatus to the 6350 the I.S. circuit is only suitable for Class I, Zone 1, or Class I, Zone 2, and is not suitable for Class I, Zone 0 or Class I, Division 1, Hazardous (Classified) Locations.
9. No revision to drawing without prior FM / CSA Approval.
10. Simple Apparatus is defined as a device that neither generates nor stores more than 1.2 V, 0.1 A 20 µJ or 25 mW.
11. The termination must be NRTL approved, and the resistor must be infallible.
12. Warning: For applications in Div2 or Zone 2 (Classified Locations) Explosion hazard: Except for field circuits, do not disconnect the apparatus unless the area is known to be non hazardous.
13. Warning: Substitution of Components May Impair Safety.