

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, 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 ledningstvsærnsnit, 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.

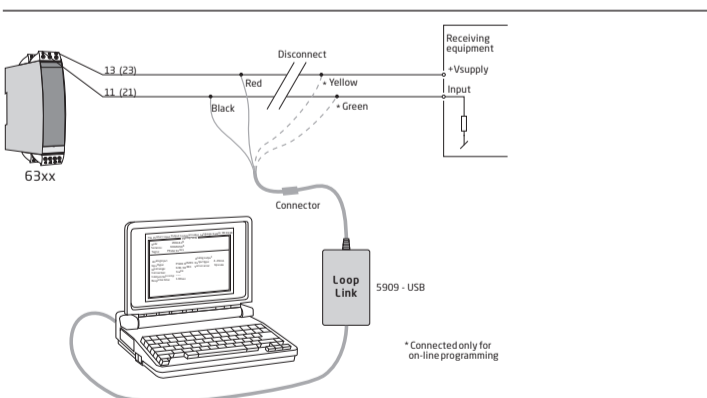
Rengøring
Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

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 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, 6335A & 6337A.....	8,0...35 VDC
Max. forbrug, 6335A & 6337A, 1 / 2 kanaler.....	0,8 W / 1,6 W
Forsyningsspænding, 6335D & 6337D.....	8,0...30 VDC
Max. forbrug, 6335D & 6337D, 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
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, Q _{min}	≤ (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	FM17U50013X	0, 1, 2 / Div 1	6335QF01	1125003	0, 1, 2 / Div 1	6335QC02

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6335A & 6337A	KEMA 09ATEX0148 X
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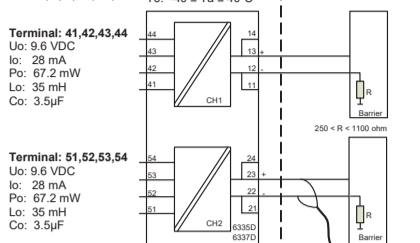
ATEX Installation drawing 6335QA01-V4R0

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.

ATEX Certificate KEMA 09ATEX 0148 X
 Marking II 1G Ex ia IIC T6, T4 Ga
 II 1D Ex ia IIIC Da
 I M 1 Ex ia I Ma

Standards EN60079-0:2012, EN60079-11:2012, EN60079-26:2007

Hazardous area Zone 0, 1, 2, 20, 21, 22
 T4: -40 ≤ Ta ≤ 85°C
 T5: -40 ≤ Ta ≤ 60°C
 T6: -40 ≤ Ta ≤ 40°C



Terminal: 41,42,43,44
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 51,52,53,54
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

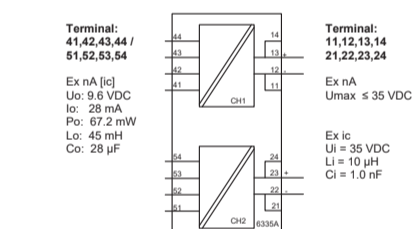
ATEX Installation drawing 6335QA02-V5R0

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.

ATEX Certificate KEMA 09ATEX0148X
 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

T6: -40°C to 60 °C
 T4: -40°C to 85 °C



Terminal: 41,42,43,44 / 51,52,53,54
 Ex nA [ic]
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 45 mH
 Co: 28 µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ex nA
 Umax ≤ 35 VDC

Terminal: 51,52,53,54
 Ex ic
 Ui: 35 VDC
 Li: 10 µH
 Ci: 1.0 nF

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.

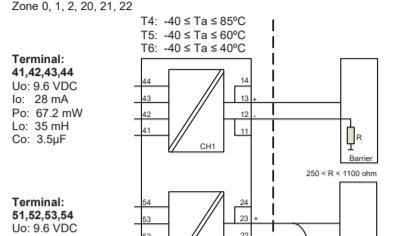
IECEx Installation drawing 6335QI01-V4R0

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.

IECEx Certificate IECEx KEM.10.0084X
 Marking Ex ia IIC T6, T4 Ga
 Ex ia IIIC Da
 Ex ia I Ma

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

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



Terminal: 41,42,43,44
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 51,52,53,54
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

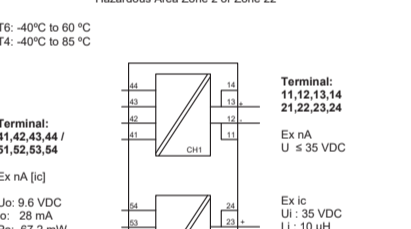
IECEx Installation drawing 6335QI02-V4R0

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.

IECEx Certificate IECEx KEM.10.0084X
 Marking Ex nA [ic] IIC T6, T4 Gc
 Ex ic IIC T6, T4 Gc
 Ex ic IIIC Dc

Standards IEC60079-0:2011, IEC60079-11:2011, IEC60079-15:2010

T6: -40°C to 60 °C
 T4: -40°C to 85 °C



Terminal: 41,42,43,44 / 51,52,53,54
 Ex nA [ic]
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67.2 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ex nA
 U ≤ 35 VDC

Terminal: 51,52,53,54
 Ex ic
 Ui: 35 VDC
 Li: 10 µH
 Ci: 1.0 nF

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.

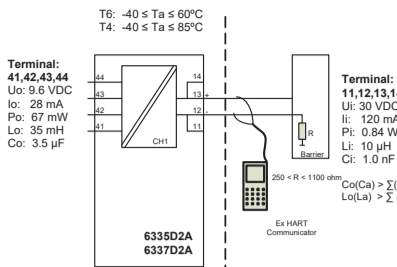
Cable entry devices and blanking elements shall fulfill the same requirements

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



Terminal: 41,42,43,44
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

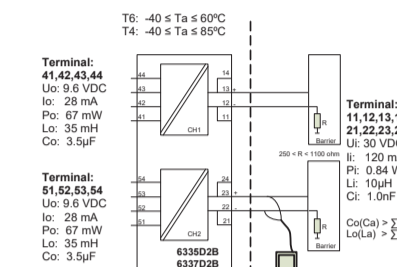
Installation notes

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.

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
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

Installation notes

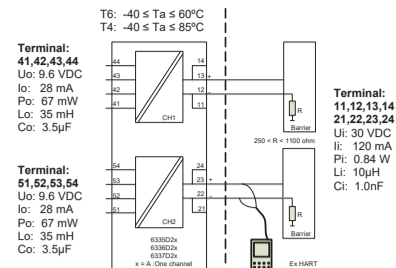
The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The Canadian Electrical Code (CEC).

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

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



Terminal: 41,42,43,44
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

Installation notes

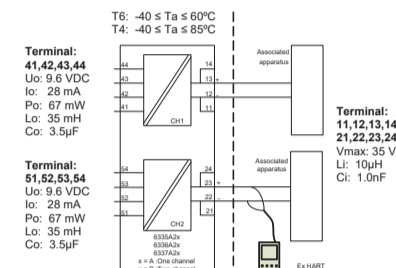
For installation in Class I the Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The National Electrical Code (ANSI/NFPA 70).

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 $U_i(V_{MAX})$ and current $I_i(I_{MAX})$, and maximum power $P_i(P_{MAX})$, which the device can receive and remain intrinsically safe, must be equal to or greater than the voltage (U_o or V_o or V_i) and current (I_o or I_c or I_i) and the power P_o 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 (C_a) which can be safely connected to the barrier. The sum of the maximum unprotected inductance (L_i) for each intrinsically device and the interconnecting wiring must be less than the inductance (L_a) which can be safely connected to the barrier. The entity parameters U_o, V_o or V_i and I_o, I_c or I_i , and C_a and L_a 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



Terminal: 41,42,43,44
 Uo: 9.6 VDC
 Io: 28 mA
 Po: 67 mW
 Lo: 35 mH
 Co: 3.5µF

Terminal: 11,12,13,14 and 21,22,23,24
 Ui: 30 VDC
 Ii: 120 mA
 Pi: 0.84 W
 Li: 10µH
 Ci: 1.0nF

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

Installation notes

The Transmitter must be installed in a suitable enclosure to meet installation codes stipulated in The 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.

EU DECLARATION OF CONFORMITY



(6335_6337DoC_102)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-9410 Randø** hereby declares that the following products:
 Type: 6335 / 6337
 Name: 2-wire HART transmitter
 From serial no.: 160949210 (6335) / 160946109 (6337)

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 2014/34/EU and later amendments
 EN 60079-0:2012 + A11:2013, EN 60079-11:2012 and EN 60079-15:2010
 ATEX certificate: KEMA 09ATEX0148 X

ATEX notified body (type approval)
 DEKRA Certification B.V.
 Heander 1051, 6825 MJ Arnhem
 P.O. Box 5185, 6802 ED Arnhem
 The Netherlands

The RoHS2 Directive 2011/65/EU and later amendments
 EN 50581:2012

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

Randø, 16 January 2018

 Stig Lindemann, CTO
 Manufacturer's signature