

DK

ADVARSEL
 Dette modul er beregnet for tilslutning til livsfarlige elektriske spændinger. Hvis denne advarsel ignoreres, kan det føre til alvorlig legemsbeskadigelse eller mekanisk adfærd.
 For at undgå faren for elektriske stød og brand skal sikkerhedsreglerne overholdes, og vejledningerne skal følges.
 Specifikationerne må ikke overskrides, og modulet må kun benyttes som beskrevet i det følgende. Denne installationsvejledning skal studeres omhyggeligt, før modulet tages i brug. Kun kvalificeret personale (teknikere) må installere dette modul. Hvis modulet ikke benyttes som beskrevet i denne installationsvejledning, så forringes modulets beskyttelsesforanstaltninger.

ADVARSEL
 Der må ikke tilsluttes farlig spænding til modulet, før dette er fastmonteret, og 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 og udsifting af sikringer må kun foretages af PR electronics A/S.

ADVARSEL
 Modulets frontplade må ikke åbnes, da dette vil medføre skade på stikforbindelsen til display / programmeringsfronten PR 4501. Modulerne indeholder ingen DIP-switches eller jumbere.

SIKKERHEDSREGLER
Mottagelse og udpakning
 Udpak modulet uden at beskadige det. Kontrollér ved mottagelsen, 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 kraftigt fugt. Om nødvendigt skal opvarmning, ud over de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation.
 Alle moduler kan anvendes i Måle- / overspændingskategori II og Forureningsgrad 2. Modulerne er designet til at være sikker mindst op til en højde af 2000 m.

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 det rettes henvendelse til den lokale forhandler eller alternativt direkte til PR electronics A/S.
 Det er ikke tilladt at benytte flerkeret ledning ved tilslutning af forsyningsledning med mindre ledningsendeme er forsynet med ledningsstyler.
 Beskrivelse af indgang / udgang og forsyningsforbindelser findes i produktmanualen og på sideskiltet.
 Modulet er forsynet med skrutermineraler og skal forsynes fra en dobbeltisoleret / forstærket isoleret spændingsforsyning. En afbryder placeres let tilgængeligt og tæt ved modulet. Afbryderen skal mærkes således, at der ikke er tvivl om, at den afbryder spændingen til modulet.
 Ved installation på Power Rail 9400 bliver forsyningsspændingen leveret af Power Control Unit type 9410.
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.
Betjening under normal drift
 Operatører må kun indstille eller betjene modulerne, når disse er fast installeret på forsvarlig måde i tavler eller lignende, så betjeningen ikke medfører fare for liv eller materiel. Dvs., at der ikke er berøring af fare, og at modulet er placeret, så det er let at betjene.

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

Elektriske specifikationer

Specifikationsområde.....	-20°C til +60°C
Forsyningsspænding.....	19.2...31.2 VDC
Max. forbrug.....	≤ 3.5 W / 2 kanaler
Sikring.....	400 mA SB / 250 VAC
Isolationsspænding, test / drift.....	2.6 kVAC / 300 VAC
Isolation - udgang 1 til udgang 2.....	1.5 kVAC / 150 VAC
Isolation - relæ til forsyning.....	1.5 kVAC / 150 VAC (forstærket isolation)
Kalibreringstemperatur.....	20...28°C
EMC-immunitetspårvikning.....	≤ +0.5% af span
Udvædet EMC-immunitet:	
NAMUR NE21, A-krit. gniststj. <.....	≤ +1% af span
2-trådsforsyning (Klemme 44..43).....	25..15 VDC / 0..20 mA
Relativ luftfugtighed.....	< 95% RH (ikke kond.)
Mål, med 4501 (H x B x D).....	109 x 23.5 x 116 mm
Mål, uden 4501 (H x B x D).....	109 x 23.5 x 104 mm
Kapslingsklasse.....	IP20
Strømindgang:	
Programmerbare måleområder.....	0..20 og 4..20 mA
Indgangsmodstand.....	Nom. 20 Ω + PTC 50 Ω
Strømdugang:	
Programmerbare signalmåler.....	0..20/4..20/20..0/20..4 mA
Belastning (max.).....	20 mA / 600 Ω / 12 VDC
Belastningsstabilitet.....	≤ 0.01% af span / 100 Ω
Følerfejlsreaktion.....	0 / 3.5 / 23 mA / ingen
NAMUR NE43 Upscale/Downscale.....	23 mA / 3.5 mA
Strømbegrænsning.....	≤ 28 mA
Max. belastning, strøm / spænding.....	80 mA / 30 VDC
Godkendelser:	
DNV, Ships & Offshore.....	Stand. f. Certification No. 2.4
UL, Standard for Safety.....	UL 61010-1
EAC.....	TR-CU 020/2011
EAC Ex.....	TR-CU 012/2011
SIL.....	IEC 61508
Overholdte myndighedskrav	
EMC.....	2014/30/EU
LVD.....	2014/35/EU
ATEX.....	2014/34/EU
RoHS.....	2011/65/EU

DECLARATION OF CONFORMITY

(9107DoC_101)

As manufacturer **PR electronics A/S, Lerbakken 10, DK-8410 Rønde** hereby declares that the following products:
Type: 9107
Name: HART transparent driver
From serial no.: 150802000
 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 Low Voltage Directive and later amendments until 2016.04.19: 2006/95/EC from 2016.04.20: 2014/35/EU **EN 61010-1: 2010**
 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: PR 14ATEX0101 X (9107A)
ATEX certificate: DEKRA 11ATEX0247 X (9107B)
 Notified body **DEKRA Certification B.V. (0344) Utrechtseweg 310, 6812 AR 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.

Stig Lindemann, CTO
 Manufacturer's signature

Rønde, 30 March 2016

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ATEX Installation drawing 9107QA01 – V2R0



For safe installation of 9107B 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.



For installation in Zone 2 the following must be observed.
The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way.
Only 4501 modules free of dust and moisture shall be installed.

9107BA: 1 channel HART® -transparent driver
9107BB: 2 channel HART® -transparent driver

ATEX Certificate: DEKRA 11 ATEX0247X

Marking
II (1) G [Ex ia Ga] IIC/IIIB/IIA
II 3 G Ex nA nC IIC T4 Gc
II (1) D [Ex ia Da] IIC
I M (1) [Ex ia Ma] I

Standards
EN 60079-0:2009, EN 60079-11:2007, EN 60079-15:2005
EN 60079-26:2007, EN 61241-1:2006

Supply terminal (31,32)

Voltage: 19.2 – 31.2 VDC

Status Relay, terminal (33,34) Zone 2 Installation

Voltage max: 125 VAC / 110 VDC 32 VAC / 32 VDC
Power max: 62.5 VA / 32 W 16 VA / 32 W
Current max: 0.5 A AC / 0.3 ADC 0.5 A AC / 1 ADC

Installation notes:

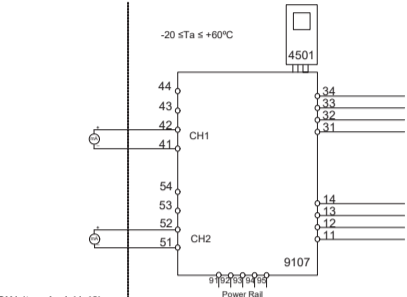
Install in pollution degree 2, overvoltage category II as defined in EN60664-1
Do not separate connectors when energized and an explosive gas mixture is present.
Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.
Disconnect power before servicing.
The wiring of unused terminals is not allowed.

In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIB are applicable.

For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit type 9410 (Type Examination Certificate KEMA 07ATEX0152 X) is allowed.

Hazardous area Zone 0,1,2, 20, 21, 22
Non Hazardous area or Zone 2
(terminal 11,12,13,14)
(terminal 31,32,33,34)
(terminal 91,92,93,94,95)
Um: 253 V, max. 400 Hz



CH1 (terminal 41,42)
CH2 (terminal 51,52)
U_c: 28 V
I_c: 93 mA
P_c: 0.65 W

	IIC	IIB	IIA	I
C ₁	0.080 μF	0.650 μF	2.15 μF	3.76 μF
L ₁	4 mH	16 mH	32 mH	35 mH

IECEx Installation drawing 9107Q01 – V2R0



For safe installation of 9107B 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.



For installation in Zone 2 the following must be observed.
The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way.
Only 4501 modules free of dust and moisture shall be installed.

9107BA: 1 channel HART® -transparent driver
9107BB: 2 channel HART® -transparent driver

IECEx Certificate: IECEx DEK 11.0088X

Marking
[Ex ia Ga] IIC/IIIB/IIA
Ex nA nC IIC T4 Gc
[Ex ia Da] IIC
[Ex ia Ma] I

Standards
IEC60079-15:2005, IEC60079-11:2011, IEC60079-0:2011
IEC60079-26:2006

Supply terminal (31,32)

Voltage: 19.2 – 31.2 VDC

Status Relay, terminal (33,34) Zone 2 Installation

Voltage max: 125 VAC / 110 VDC 32 VAC / 32 VDC
Power max: 62.5 VA / 32 W 16 VA / 32 W
Current max: 0.5 A AC / 0.3 ADC 0.5 A AC / 1 ADC

Installation notes:

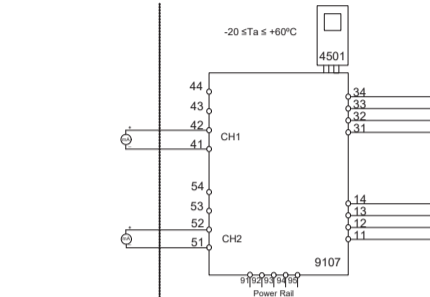
Install in pollution degree 2, overvoltage category II as defined in IEC 60664-1
Do not separate connectors when energized and an explosive gas mixture is present.
Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.
Disconnect power before servicing.
The wiring of unused terminals is not allowed.

In type of protection [Ex ia Da] the parameters for intrinsic safety for gas group IIB are applicable.

For installation in Zone 2, the module shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. Cable entry devices and blanking elements shall fulfill the same requirements.

For installation on Power Rail in Zone 2, only Power Rail type 9400 supplied by Power Control Unit type 9410 (Type Examination Certificate KEMA 07ATEX0152 X) is allowed.

Hazardous area Zone 0,1,2, 20, 21, 22
Non Hazardous area or Zone 2
(terminal 11,12,13,14)
(terminal 31,32,33,34)
(terminal 91,92,93,94,95)
Um: 253 V, max. 400 Hz



CH1 (terminal 41,42)
CH2 (terminal 51,52)
U_c: 28 V
I_c: 93 mA
P_c: 0.65 W

	IIC	IIB	IIA	I
C ₁	0.080 μF	0.650 μF	2.15 μF	3.76 μF
L ₁	4 mH	16 mH	32 mH	35 mH

FM Installation drawing 9107QF01 – V2R0



For safe installation of 9107B 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.



For installation in Zone 2 the following must be observed.
The 4501 programming module is to be used solely with PRelectronics modules. It is important that the module is undamaged and has not been altered or modified in any way.
Only 4501 modules free of dust and moisture shall be installed.

9107BA: 1 channel HART® -transparent driver
9107BB: 2 channel HART® -transparent driver

Supply terminal (31,32)

Voltage: 19.2 – 31.2 VDC

Status Relay, terminal (33,34)

Voltage max: 125 VAC / 110 VDC 32 VAC / 32 VDC
Power max: 62.5 VA / 32 W 16 VA / 32 W
Current max: 0.5 A AC / 0.3 ADC 0.5 A AC / 1 ADC

Zone 2 Installation:

Voltage max: 32 VAC / 32 VDC
Power max: 16 VA / 32 W
Current max: 0.5 A AC / 1 ADC

Installation notes:

In Class I, Division 2 installations, the subject equipment shall be mounted within a lock-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code (CEC 22.1).

The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location. The module is galvanically isolated and does not require grounding.

Install in pollution degree 2, overvoltage category II.
Use 60 / 75 °C copper conductors with wire size AWG: (26-14)
In type of protection "intrinsic safety 0" the parameters for intrinsic safety for gas group IIB are applicable.

Warning: Substitution of components may impair intrinsic safety.

Warning: To prevent ignition of the explosive atmospheres, disconnect power before servicing and do not separate connectors when energized and an explosive gas mixture is present.

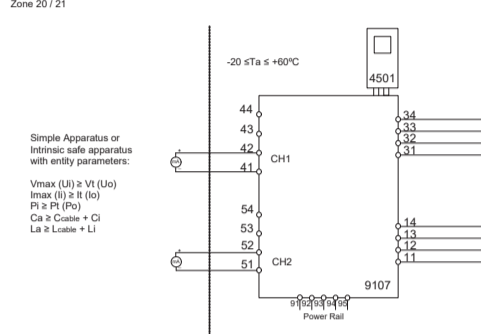
Warning: Do not install or remove modules from the Power Rail when an explosive gas mixture is present.

Hazardous Classified Location

Class I / II / III, Division 1, Group A,B,C,D,E,F,G
Class I, Zone 0 / 1 / 2 Group IIC, IIB, IIA or Zone 20 / 21

Unclassified Location or Hazardous Classified Location

Class I, Division 2 Group A,B,C,D T4
Class I, Zone 2, Group IIC, IIB, IIA T4



Simple Apparatus or Intrinsic safe apparatus with entry parameters:

V_{max} (UI) ≥ V_I (L₀)
I_{max} (II) ≥ I_I (L₀)
P_I ≥ P_I (P₀)
C_a ≥ C_{able} + C_I
L_a ≥ L_{able} + L_I

CH1 (terminal 41,42)
CH2 (terminal 51,52)
U_c, Voc: 28 V
I_c, Isc: 93 mA
P_c: 0.65 W

	IIC or A,B	IIB or C,E,F	IIA or D,G
C ₁	0.08 μF	0.650 μF	2.15 μF
L ₁	4 mH	16 mH	32 mH

(terminal 11,12,13,14)
(terminal 31,32,33,34)
(terminal 91,92,93,94,95)
Um: 253 V, max. 400 Hz

INMETRO - Desenhos para Instalação 9107QB01 – V2R0



Para instalação segura do 9107B o manual seguinte deve ser observado. O módulo deve ser instalado somente por profissionais qualificados que estão familiarizados com as leis nacionais e internacionais, diretivas e normas que se aplicam a esta área.
Ano de fabricação pode ser obtido a partir dos dois primeiros dígitos do número de série.



Para a instalação na Zona 2 o seguinte deve ser observado. O módulo de programação de 4501, deve ser utilizado apenas com os módulos PRelectronics. É importante que o módulo esteja intacto e não tenha sido alterado ou modificado de qualquer maneira.
Apenas os módulos 4501 livres de poeira e umidade devem ser instalados.

9107BA: 1 canal HART® - driver transparente
9107BB: 2 canais HART® - driver transparente

INMETRO Certificado NCC 12.1300X

Marcas
[Ex ia Ga] IIC/IIIB/IIA
Ex nA nC IIC T4 Gc
[Ex ia Da] IIC

Normas
IEC60079-15:2005, IEC60079-11:2011, IEC60079-0:2011
IEC60079-26:2006

Terminal de fonte de alimentação (31,32)

Voltagem: 19.2 – 31.2 VDC

Relé de estado terminal (33,34) Instalação Zone 2

Voltagem máx.: 125 VAC / 110 VDC 32 VAC / 32 VDC
Potência máx.: 62.5 VA / 32 W 16 VA / 32 W
Corrente máx.: 0.5 A AC / 0.3 ADC 0.5 A AC / 1 ADC

Notas de instalação:

Instalação em grau de poluição 2, categoria de sobretensão II conforme definido no IEC 60664-1
Não separe conectores quando energizado ou quando uma mistura de gás explosivo estiver presente.

Não monte ou remova módulos do trilho de alimentação quando uma mistura explosiva de gás estiver presente.
Desligue a alimentação antes da manutenção.
A fiação de terminais sem uso não é permitida.

A fonte de Loop e terminais de entrada de corrente para o mesmo canal não deve ser aplicada ao mesmo tempo.

Em tipo de proteção [Ex ia Da] os parâmetros para a segurança intrínseca para grupo de gás IIB são aplicáveis.

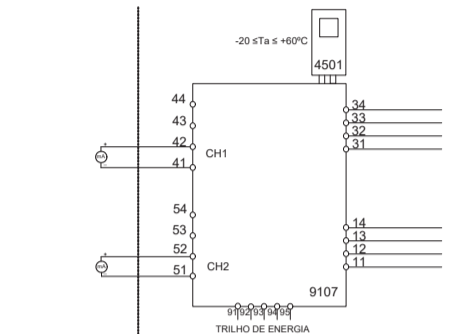
Para a instalação em Zona 2, o módulo deve ser instalado em um invólucro certificado conforme as normas da série ABNT NBR IEC 60079, proporcionando um grau de proteção de pelo menos IP54. Dispositivos de entrada de cabo e elementos de vedação devem cumprir com os mesmos requisitos.

Para a instalação de trilho de energia na Zona 2, apenas o trilho de alimentação Rail 9400 fornecido pela Unidade de Controle de Potência 9410 é permitido.

Área de Risco Zona 0,1,2, 20, 21, 22

Área de não Risco ou Zona 2

(terminais: 11,12,13,14)
(terminais: 31,32,33,34)
(terminais: 91,92,93,94,95)
Um: 253 V, máx. 400 Hz



CH1 (terminais 41,42)
CH2 (terminais 51,52)
U_c: 28 V
I_c: 93 mA
P_c: 0.65 W

	IIC	IIB	IIA
C ₁	0.080 μF	0.650 μF	2.15 μF
L ₁	4 mH	16 mH	32 mH