



## ATEX Installation drawing 9202QA01-V4R0

**!** For safe installation of 9202B 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 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PR electronics 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.

ATEX Certificate KEMA 07 ATEX 0146 X

Marking II (1) G [Ex ia Ga] IIC/IIIB/IIA  
II 3G Ex nA nC IIC T4 Gc  
I (T) D [Ex ia Da] IIC  
(M1) [Ex ia Ma]

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

Supply terminal (31,32)  
Voltage : 19.2 – 31.2 VDC

Status Relay, terminal (33,34) Zone 2 Installation  
Voltage max: 125VAC / 110VDC 32VAC / 32VDC  
Power max: 62.5VA / 32W 16VA / 32W  
Current max: 0.5A AC / 0.3ADC 0.5A AC / 1ADC

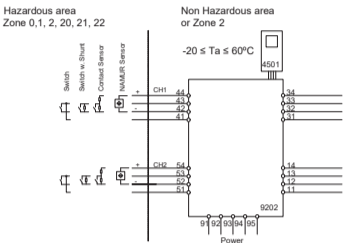
Installation notes:  
Install in pollution degree 2, overvoltage category II as defined in EN 60664-1

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.



U<sub>i</sub>: 10.6 VDC  
I<sub>s</sub>: 12 mA DC  
P<sub>i</sub>: 32 mW  
Lo/Ro: 1150 µH/Ω

	IIC	IIB	IIA	I
C <sub>in</sub>	2.0 µF	6.0 µF	18 µF	90 µF
L <sub>o</sub>	280 mH	780 mH	1000 mH	1000 mH

Ex input:  
CH1 (terminal 41,42,43,44)  
CH2 (terminal 51,52,53,54)

Terminal CH1(11,12) CH2(13,14)  
Digital output: NPN output:  
Voltage max: 30 VDC  
Current max: 80 mA

Terminal CH1(11,12) CH2(13,14)  
Relay output: Non Hazardous location Zone 2 Installation  
Voltage max: 250 VAC / 30 VDC 32 VAC / 30 VDC  
Power max: 500 VA / 60 W 64 VA / 60 W  
Current max: 2 AAC / 2 ADC 2 AAC / 2 ADC

## IECEx Installation drawing 9202QI01-V4R0

**!** For safe installation of 9202B 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 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PR electronics 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.

IECEx Certificate KEM 06.0039 X

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

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

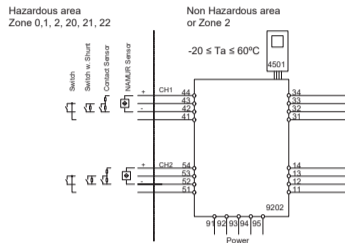
Installation notes:  
Install in pollution degree 2, overvoltage category II as defined in IEC60664-1

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.



U<sub>i</sub>: 10.6 VDC  
I<sub>s</sub>: 12 mA DC  
P<sub>i</sub>: 32 mW  
Lo/Ro: 1150 µH/Ω

	IIC	IIB	IIA	I
C <sub>in</sub>	2.0 µF	6.0 µF	18 µF	90 µF
L <sub>o</sub>	280 mH	780 mH	1000 mH	1000 mH

Ex input:  
CH1 (terminal 41,42,43,44)  
CH2 (terminal 51,52,53,54)

Terminal CH1(11,12) CH2(13,14)  
Digital output: NPN output:  
Voltage max: 30 VDC  
Current max: 80 mA

Terminal CH1(11,12) CH2(13,14)  
Relay output: Non Hazardous location Zone 2 Installation  
Voltage max: 250 VAC / 30 VDC 32 V AC / 30 VDC  
Power max: 500 VA / 60 W 64 VA / 60 W  
Current max: 2 AAC / 2 ADC 2 AAC / 2 ADC

## FM Installation drawing 9202QF01-V4R0

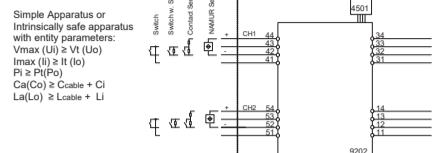
**!** For safe installation of 9202B the following must be observed. The module shall only be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area.

**!** For installation in Zone 2 / Division 2 the following must be observed. The 4501 programming module is to be used solely with PR electronics 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.

c-FM-us Certificate 3034430

Hazardous area Class III/IV, Division 1, Group A,B,C,D,E,F,G or Class I, Zone 0/1 Group IIC, [Ex ia] IIC or or Class I, Zone 0/1 Group IIC, [Ex ia] IIC

Non Hazardous area or Class I, Division 2, Group A,B,C,D,T4 or Class I, Zone 2 Group IIC T4



U<sub>i</sub> / V<sub>t</sub>: 10.6 V  
I<sub>s</sub> / I<sub>sc</sub>: 12 mA  
P<sub>i</sub> / P<sub>o</sub>: 32 mW  
Lo/Ro La/Ra: 1150 µH/Ω

Group	IIC	IIB	IIA
C <sub>in</sub>	2.0 µF	6.0 µF	18 µF
L <sub>o</sub>	280 mH	780 mH	1000 mH

Terminal CH1(44,42) CH2(54,52)  
Supply / Output (terminal 11,12,13,14) (terminal 31,32,33,34) (terminal 91,92,93,94,95)

Terminal (31,32)  
Supply:  
Voltage 19.2 – 31.2 VDC  
Power max. 3 W

Terminal (33,34)  
Status Relay:  
Non Hazardous location: Division 2 or Zone 2 Installation:  
Voltage max: 125 VAC / 110 VDC 32 VAC / 32VDC  
Power max: 62.5 VA / 32 W 16 VA / 32 W  
Current max: 0.5 AAC / 0.3 ADC 0.5 AAC / 1 ADC

Terminal CH1(11,12) CH2(13,14)  
Digital output: NPN output:  
Voltage max: 30 VDC  
Current max: 80 mA

Terminal CH1(11,12) CH2(13,14)  
Relay output: Non Hazardous location: Division 2 or Zone 2 installation:  
Voltage max: 250 VAC / 30VDC 32 VAC / 30VDC  
Power max: 500 VA / 60W 64 VA / 60 W  
Current max: 2 AAC / 2ADC 2 AAC / 2 ADC

Installation notes:  
The installation and wiring shall be in accordance with the Canadian Electrical Code for Canada and National Electrical Code NFPA 70, Article 500 or 505 for installation in USA.  
The module must be supplied from a Power Supply having double or reinforced insulation.

The use of stranded wires is not permitted for mains wiring except when wires are fitted with cable ends.

For installation on the 9400 Power Rail the power must be supplied from Power Control Module Unit 9410.

Install in pollution degree 2, overvoltage category II.

The module must be installed in an enclosure suitable for the environment for which it is used.

For installation in Zone 2 or Division 2, the module must be installed in a suitable outer enclosure according to the regulations in the CEC for Canada or NEC for USA.

The module is galvanically isolated and does not require grounding.

Use 60 / 75 °C copper conductors with wire size AWG: (26-14).

Warning: Substitution of components may impair intrinsic safety and / or suitability for Div. 2 / Zone 2.

Warning: To prevent ignition of explosive atmospheres, disconnect power before servicing and do not separate connectors when energized and an explosive gas mixture is present.  
Warning: Do not mount or remove modules from the Power Rail when an explosive gas mixture is present.

## INMETRO Desenhos para Instalação 9202QB01-V4R0

**!** Para instalação segura do 9202B 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.

INMETRO Certificado ..... NCC 12.1307X

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

Terminais de fonte de alimentação (31,32)  
Voltagem: 19.2 – 31.2 VDC

Relê de estado, terminais (33,34) Instalação Zona 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

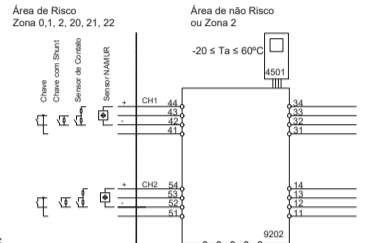
Notas de instalação:  
Instalação em grau de poluição 2, categoria de sobretensão II conforme definido no IEC 60664-1. Não separe conectores quando energizado ou quando uma mistura de gás explosivo estiver presente.

Desligue a alimentação antes da manutenção.  
A fixação 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 que proporcione 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.



U<sub>i</sub>: 10.6 VDC  
I<sub>s</sub>: 12 mA DC  
P<sub>i</sub>: 32 mW  
Lo/Ro: 1150 µH/Ω

	IIC	IIB	IIA
C <sub>in</sub>	2.0 µF	6.0 µF	18 µF
L <sub>o</sub>	280 mH	780 mH	1000 mH

Entrada Ex:  
CN1 (terminais 41,42,43,44)  
CN2 (terminais 51,52,53,54)

Terminal CH1(11,12) CH2(13,14)  
Saída digital: Saída NPN:  
Voltagem máx.: 30 VDC  
Corrente máx.: 80 mA

Terminal CH1(11,12) CH2(13,14)  
Saída relê: Área de não Risco Instalação Zona 2  
Voltagem máx.: 250 VAC / 30 VDC 32 V AC / 30 VDC  
Potência máx.: 500 VA / 60 W 64 VA / 60 W  
Corrente máx.: 2 AAC / 2 ADC 2 AAC / 2 ADC