

# PW200XRD POWER SUPPLIER FOR ATEX 1 AND 21 ZONES



**Power adapter and input/output interfacing module, for zones classified as hazardous (zones 1 and 21) with these protection modes: II(2)/2 G [EEx ib]/EExd IIC T4 and II(2)/2 D [EEx ib]/tD A21 T140°C**

## MAIN FEATURES

- Extremely versatile, and able to transform dangerous voltages coming from safe areas (24Vdc and 24/115/230Vac) into an intrinsic safety voltage, for powering devices in hazardous areas.
- Through the PW200IO option (4 intrinsically safe inputs and 4 intrinsically safe or 4 unprotected data outputs), the PW200XRD module allows to receive the signals from outside and to manage intrinsically safe devices or devices with greater absorption, such as relays, placed in the Exd box (for use with DFWATEXIO).
- Designed and made according to the ATEX94/9/CE directive, following the EN50014/50020/60079-0/60079-11 norms.

## GENERAL TECHNICAL FEATURES

- Exd case in aluminum alloy, with II 2GD EEx d IIC IP66 protection mode.
- The power supply voltages of the PW200XR models are:
  - 230 Vac (mod. PW200XRD - 230)
  - 115 Vac (mod. PW200XRD - 115)
  - 24 Vac (mod. PW200XRD - 24A)
  - 24 Vdc (mod. PW200XRD - 24D)
- Features of the intrinsically safe power supply output:
  - Vnom: 10,5 Vdc
  - Inom: 200 mA
  - Uo: 12,6Vdc
  - Io: 343mA
  - Lo: 700µH
  - Co: 6,8 µF

## PW200IO OPTION FEATURES:

- 4 data inputs (Exi inputs), with the following features (for interfacing with DFWATEXIO indicator):
  - Ui: 40Vdc
  - Ii 30mA
  - Li: 0µH
  - Ci: 0 µF
- 4 intrinsically safe or unprotected data outputs (Exi inputs), with the following features (commanded by the DFWATEXIO indicator):

## INTRINSIC SAFETY:

- Ui: 40Vdc
- Ii 30mA
- Li: 0µH
- Ci: 0 µF

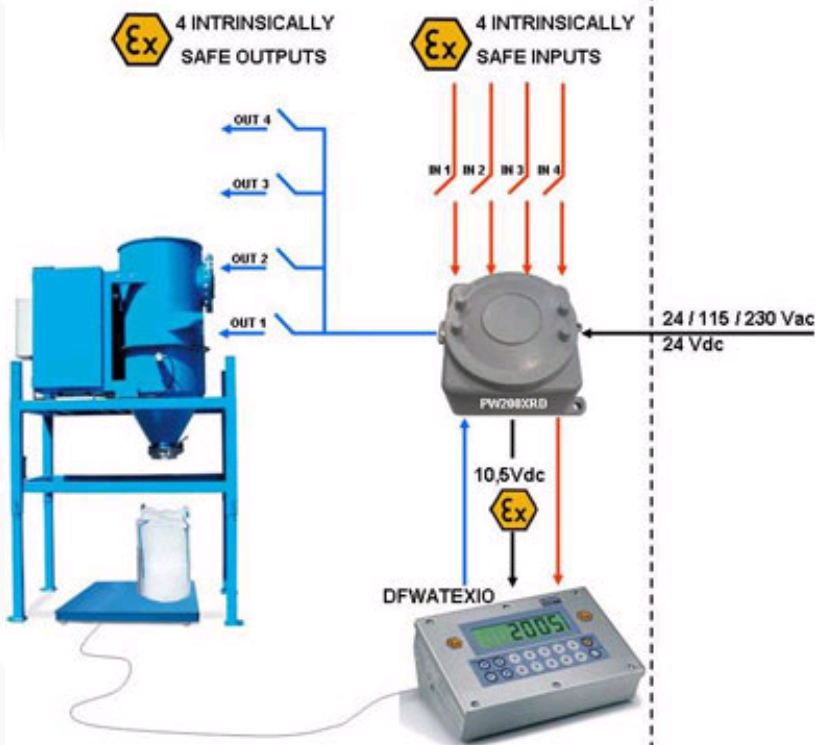
Note: If these outputs are powered through an intrinsic safety voltage inside the PW200XRD, the overall max. absorbable current from the 4 outputs and 4 inputs is 40mA; so, if just 1 output is used, it can supply up to 20mA

## UNPROTECTED:

- Umax 48Vac o 60Vac
- Imax: 150mA

**HAZARDOUS AREA (1 & 21 zones)**

**SAFE AREA**



## OPTIONS ONLY AVAILABLE AT TIME OF ORDER

- Input/output option

## Versions and Options available

Code	Description
PW200XRD230	Power supplier for hazardous zones (zones 1 and 21) with II(2)/2 G [EEx ib]/EExd IIC T4 and II(2)/2 D [EEx ib]/tD A21 T140°C protection modes, <b>intrinsically safe 230Vac input, 10,5Vdc output</b> , fitted with Exd case.

PW200XRD115	Power supplier for hazardous zones (zones 1 and 21) with II(2)/2 G [Ex ib]/EExd IIC T4 and II(2)/2 D [Ex ib]/tD A21 T140°C protection modes, <b>intrinsically safe 115Vac input, 10,5Vdc output</b> , fitted with Exd case.
PW200XRD24A	Power supplier for hazardous zones (zones 1 and 21) with II(2)/2 G [Ex ib]/EExd IIC T4 and II(2)/2 D [Ex ib]/tD A21 T140°C protection modes, <b>intrinsically safe 24Vac input, 10,5Vdc output</b> , fitted with Exd case.
PW200XRD24D	Power supplier for hazardous zones (zones 1 and 21) with II(2)/2 G [Ex ib]/EExd IIC T4 and II(2)/2 D [Ex ib]/tD A21 T140°C protection modes, <b>intrinsically safe 24 Vdc input, 10,5Vdc output</b> , fitted with Exd case.
PW200IO	Intrinsically safe input/output option

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