

8-channel Analog Output



4–20 mA

8204-AO-IS

- ◆ 8 single ended output channels
- ◆ intrinsically safe
- ◆ conventional 4–20 mA
- ◆ for I/P converters
- ◆ open-circuit field wiring detection

MODULE SPECIFICATION

See also System Specification

OUTPUTS

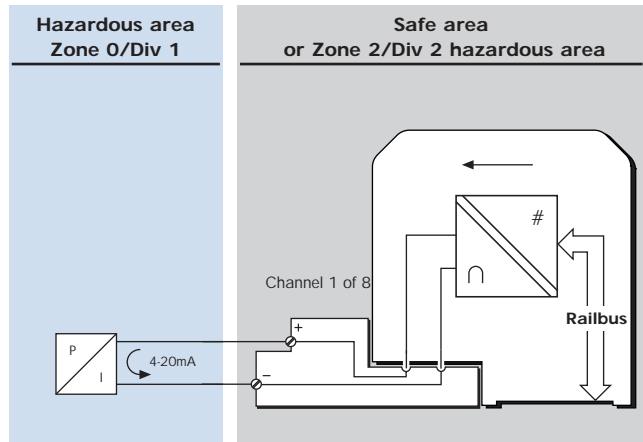
Number of channels	8
Nominal signal range (span)	4 to 20 mA
Full signal range	1 to 22 mA
Voltage to load	13 V min. @ 20 mA
Load resistance	450 Ω max.
Accuracy (@ 25°C)	± 20 µA
Temperature stability	
(– 40°C to + 70°C)	± 0.006% of span per °C
Resolution	12 bits
Open circuit detection threshold	0.7 mA ± 0.2 mA
Isolation	
(any channel to Railbus)	60 V ac
(between channels)	none

CONFIGURABLE PARAMETERS

Output initialisation state	predefined value
Drive on "fail-safe"	upscale /downscale /last value
Channel status	active /inactive

RESPONSE TIME

Railbus command to output change	25 ms (typ.)
.....	80 ms (max.)



SAFETY

Field wiring protection.....[EEx ia] IIC
 Safety description
 (each channel)..... $V_o = 24.6\text{ V}$, $I_o = 93\text{ mA}$, $P_o = 0.57\text{ W}$

POWER SUPPLIES

IS Railbus (12V) current
 (all channels @ 22 mA).....530 mA
 Power dissipation within module.....3.8 W (max.)

MECHANICAL

Module Key CodeA4
 Module width42 mm
 Weight.....245 g

FIELD TERMINAL

Field wiring type	Recommended Field Terminal
Intrinsically safe, standard	8621-FT-IS
Intrinsically safe, loop disconnect	8622-FT-IS

