

8-channel Analog Output

4–20 mA

8204-AO-IS

- 8 single-ended output channels
- Intrinsically safe
- Conventional 4–20 mA
- 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)

- $\pm 20 \mu\text{A}$

Temperature stability

- (-40°C to +70 °C) – $\pm 0.006\%$ of span per °C

Resolution

- 12 bits

Open circuit detection threshold

- 0.7 mA \pm 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

SAFETY

Field wiring protection

- [EEx ia] IIC

Safety description

- $V_o = 24.6 \text{ V}$, $I_o = 93 \text{ mA}$, $P_o = 0.57 \text{ W}$

POWER SUPPLIES

IS Railbus (12V) current

- All channels @ 22 mA into 530 Ω load) – 630 mA

Power dissipation within module

- 3.8 W (max.)

MECHANICAL

Module Key Code

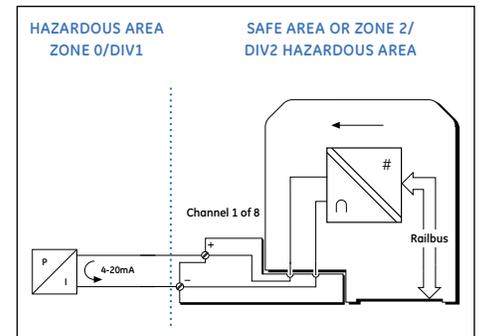
- A4

Module width

- 42 mm

Weight

- 245 g



FIELD TERMINALS

Field Wiring Type	Recommended Field Terminal
Intrinsically safe standard	8621-FT-IS
Intrinsically safe loop disconnect	8622-FT-IS