

8-channel Analog Input

4-20 mA with HART®

8202-HO-IS

- 8 single-ended output channels
- Intrinsically safe field circuits
- 4-20 mA for I/P converters
- Open-circuit field wiring detection
- HART pass-through
- HART variable and status reporting

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

- 0 to 650 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

- > 685 Ω (typ.)

(also detects loads greater than driveable range)

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

HART variable and status reporting

- Enable / Disable

RESPONSE TIME

Railbus command to output change

- 4-20 mA mode
 - 20 ms (typ.)
 - 80 ms* (max.)
- HART mode
 - 1 s per channel

SAFETY

Location of module

Field wiring protection

- [EEx ia] IIC

Safety description (each channel)

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

FM entity parameters

- $V_{oc} \leq 24.6 \text{ V dc}$, $I_{sc} \leq 93 \text{ mA}$
- $C_a \leq 0.42 \mu\text{F}$, $L_a \leq 4.2 \text{ mH}$

POWER SUPPLIES

IS Railbus (12V) current

- All channels @ 22 mA into 650 Ω load] – 630 mA

Power dissipation within module

- 4.1 W (max.)

MECHANICAL

Module Key Code

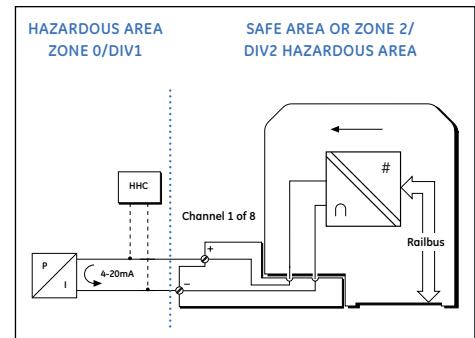
- A4

Module width

- 42 mm

Weight

- 265 g



FIELD TERMINALS

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