

8-channel Analog Output

4–20 mA with HART®

8102-HO-IP

- 8 single-ended 4-20 mA output channels
- Non-incendive field circuits
- HART pass-through
- HART variable and status reporting
- Valve positioners and remote indicators, etc.
- Open circuit detection on each channel
- 24V DC busfed field power required

MODULE SPECIFICATION

See also System Specification

OUTPUTS

Number of channels

- 8, single-ended

Nominal signal range (span)

- 4 to 20 mA

Full signal range

- 1 to 23 mA

Open loop detection threshold

- 0.7 ± 0.25 mA

Output compliance

- 20 mA at 21.6V DC supply (into 700 Ω load)

Accuracy (over temp range)

- $\pm 0.25\%$ of span

Output ripple

- $< 0.02\%$ of span

Resolution

- 12 bits

Isolation

- Any channel to Railbus – 100 V ac

CONFIGURABLE PARAMETERS

Initialisation state

- Predefined value

Drive on fail-safe

- Predefined value/last value

Channel status

- Active / Inactive

HART variable and status reporting

- Enable / Disable

RESPONSE TIME

Signal change to availability on Railbus

- 4–20 mA mode – 25 ms (max.)
- HART mode – 0.75 s per channel

SAFETY

FM non-incendive field wiring parameters (each channel)

- $V_{oc} = 28.7$ V; $I_{sc} = 33$ mA; $C_o = 0.17$ μ F; $L_o = 11.0$ mH

POWER SUPPLIES

Railbus (12V) current

- 100 mA (typ.)
- 150 mA (max.)

Busfed Field Power

- 300 mA (max.) at 24 Vdc $\pm 10\%$

MECHANICAL

Module Key Code

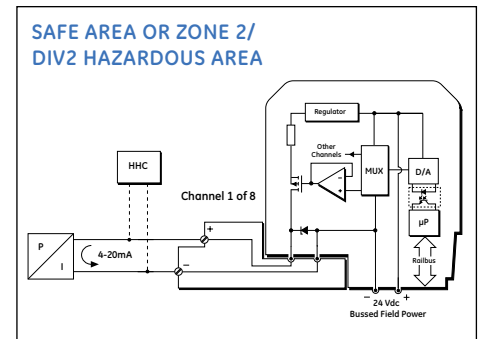
- A4

Module width

- 42 mm

Weight

- 200 g



FIELD TERMINALS

Field Wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8602-FT-ST Standard	8604-FT-FU Fused
Class 1, Div 2 or Zone 2 hazardous area	8601-FT-NI Non-incendive	8603-FT-FU Non-incendive Fused