

8-channel Analog Output

4–20 mA

8104-AO-IP

- 8 single-ended outputs
- 4–20 mA
- For I/P converters and remote indicators, etc
- Open circuit detection is provided on each channel
- 24 V dc bussed field power required

MODULE SPECIFICATION

See also System Specification

INPUTS

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 21.6 V dc supply (into 700 Ω load)

Accuracy (over temp range)

- $\pm 0.25\%$ of span

Resolution

- 12 bits

Isolation

- Any channel to Railbus – 100 V ac
- Between channels – None

CONFIGURABLE PARAMETERS

Initialization state

- Predefined value

Drive on fail-safe

- Predefined value / last value

Channel status

- Active / Inactive

RESPONSE TIME

Response Time

- From Railbus command to output change – 25 ms (max.)

SAFETY

FM non-incendive field wiring parameters (each channel)

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

POWER SUPPLIES

Railbus (12V) current

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

Bussed Field Power

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

Quiescent current

- 60 mA

MECHANICAL

Module Key Code

- A4

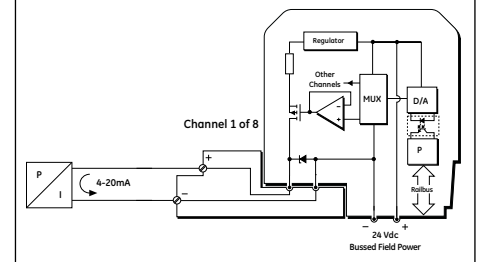
Module width

- 42 mm

Weight

- 200 g

SAFE AREA OR ZONE 2/ DIV2 HAZARDOUS AREA



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