

8-channel Analog Input

RTD and Ω

8206-TI-IS

- 8 input channels
- Intrinsically safe field circuits
- RTD and Ω
- 2-, 3- and 4-wire RTD format
- Channels independently configurable
- Channels are o/c failure independent

MODULE SPECIFICATION

See also System Specification

INPUTS

Number of channels

- 8

RTD inputs

- (2-, 3- or 4-wire)
- Pt100, Pt500 to BS EN60751: 1996
- Ni120 to DIN 43 760: 1985
- jPt100 to JIS C1604: 1981
- User definable linearisation table, NOTE 1

RTD INPUT

Input type	Range
Pt100, Pt500	-200 to +850° C
jPt100	-200 to +650° C
Ni120	-60 to +250° C

RESISTANCE INPUT

Excitation current	Range
211 μ A	0 to 110 Ω
211 μ A	0 to 280 Ω
211 μ A	0 to 470 Ω
48 μ A	0 to 2000 Ω

ACCURACY (% OF SPAN), SEE NOTE 2

Tamb	RTD & Ω inputs
25° C	\pm 0.05%
+10 to +40° C	\pm 0.1%
-40 to +70° C	\pm 0.2%

Cable resistance per loop

- 50 W (max)

RTD excitation current

- 211 μ A (nom.)

Compliance voltage of current source

- 6.8 V

Resolution

- 16 bits

Series mode rejection

- >50 dB @ 50/60 Hz

Isolation (any channel to Railbus)

- 60 V peak

CONFIGURABLE PARAMETERS

Sensor type

- User selectable

Alarms

- High and low

Input dead zone

- User defined value

Selectable input filtering

- Off / 2 reading average / running average

Drive on open circuit fault

- Disabled / upscale / downscale

Channel status

- Active / Inactive

Offset (2-wire RTD mode)

- User defined value

RESPONSE TIME

Signal change to availability on Railbus

- 600 ms (max.)

SAFETY

Field wiring protection

- [EEx ia] IIC

Safety Description (all channels combined)

- $U_o = 16.4$ V, $I_o = 217$ mA, $P_o = 0.9$ W

FM entity parameters

- $V_{oc} = 16.4$ V dc, $I_{sc} = 350$ mA, $P_o = 718$ mW

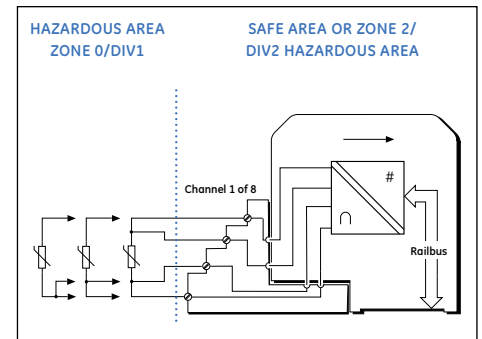
POWER SUPPLIES

IS Railbus (12V) current

- 120 mA (max.)

Power dissipation within module

- 1.5 W (max.)



FIELD TERMINALS

Field Wiring Type	Recommended Field Terminal
Intrinsically safe standard	8626-FT-IS

MECHANICAL

Module Key Code

- C3

Module width

- 42 mm

Weight

- 245 g

NOTE 1: Consult GE for support in BIM/configurator.

NOTE 2: For Pt500 and 0 to 2000 Ω ranges a deviation of 0 to + 0.1% of reading is to be added for channel 1 or any channel preceded by a lower resistance range.