

4-channel Analog Input

RTD and Ω

8106-TI-RT

- 4 RTD or resistance* source inputs
- Function defined by configuration
- 2-, 3- or 4-wire RTD types accommodated

MODULE SPECIFICATION

See also System Specification

INPUTS

Number of channels

- 4

RTD input (2,3, or 4 wire)

- Pt100 to BS1904/DIN43760/IEC 75
- Ni120; jPt100 to JIS C1604: 1989

Input Range

Input Type	Range
Resistance	Consult GE for availability
RTDs: Pt100	-200 to +850 °C
jPt100	-200 to +510 °C
Ni120	-80 to +320 °C

Input resistance range (span)

- 0 to 500 Ω

Accuracy (% of span)

Tamb	(RTD & Ω inputs)
25°C	± 0.05%
+10 to +40°C	± 0.1%
-40 to +70°C	± 0.2%

RTD excitation current

- 200 μ A (nom.)

Resolution

- 15 bits plus sign bit

Common mode rejection

- > 80 dB @ 50/60 Hz

Series mode rejection

- > 40 dB @ 50/60 Hz

Isolation

- Any channel to Railbus – 250 V ac rms

Open circuit bleed current

- 0.5 μ A (nom.)

CONFIGURABLE PARAMETERS

Sensor type

- User selection

Input deadzone

- User defined value

Selectable input filtering

- Off / 2-reading average / running average

Drive on open circuit fault

- Disabled / upscale

Alarms

- High and low

Channel status

- Active / Inactive

Offset (2-wire RTD mode)

- User defined value

RESPONSE TIME

Signal change to availability on Railbus

- 180 ms (min.)
- 840 ms (max.)

O/C sensor detection

- ≤ 10 s

SAFETY

FM non-incendive field wiring parameters (each channel)

- $V_{oc} = 10.5$ V; $I_{sc} = 3.6$ mA; $C_o = 14.9$ μ F; $L_o = 1000$ mH

POWER SUPPLIES

Railbus (12V) current

- 1150 mA (typ.)
- 200 mA (max.)

Bussed Field Power

- Not required

MECHANICAL

Module Key Code

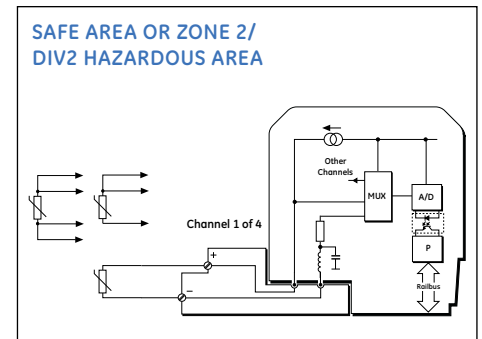
- C3

Module width

- 42 mm

Weight

- 200 g



FIELD TERMINALS

Field Wiring	Recommended Field Terminal	Compatible Field Terminal
General purpose	8606-FT-RT RTD	—
Class 1, Div 2 or Zone 2 hazardous area	8606-FT-RT RTD	—

* Consult GE for availability