



## GT-5914

### HART Communication module

4 analog inputs

4~20 mA

16 bit resolution

HART Revision 5

HART devices per channel: 1 device (single-drop, no multi-drop)

10pt removable terminal block

## Facts

### General description

Article number	100-8075
Warranty	Up to 2 years
Article status	Active
Shock operating	IEC 60068-2-27 (15G)
Vibration resistance	Sine vibration (based on IEC 60068-2-6), 5 ~ 25 Hz: $\pm 1.6\text{mm}$ , 25 ~ 300 Hz: 4G, Sweep rate: 1 octave/min., 20 cycles, Random vibration (based on IEC 60068-2-64), 10 ~ 40 Hz: $0.0125\text{g}^2/\text{Hz}$ , 40 ~ 100 Hz: $0.0125 \rightarrow 0.002\text{g}^2/\text{Hz}$ , 100 ~ 500 Hz: $0.002 \text{g}^2/\text{Hz}$ , 500 ~ 2000 Hz: $0.002 \rightarrow 1.3 \times 10^{-4}\text{g}^2/\text{Hz}$ , Test time: 1hrs for each test
Industrial emissions	EN 61000-6-4/A11: 2011
Industrial immunity	EN 61000-6-2: 2019
Product certifications	Horizontal, Vertical CE, UL, cUL, FCC, RoHS, China RoHS, Reach
Power dissipation	Max. 30 mA @ 5 VDC, Max. 10 mA @ 24 VDC
Isolation	I/O to Logic: Photocoupler isolation, I/O to Field Power: Non-Isolation
Field power	Nominal supply voltage: 24 VDC, Voltage range: 60°C: 18~32 VDC, 70°C: 18~26.4 VDC
Weight	60 g
Module size	12x109x70 mm

### Environmental

Mounting	35mm DIN rail
Operating temperature	-20 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-20 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

## Analog input module specifications

Calibration	Not required
Common type	2 COM, field power 0 V (AGND)
Conversion time	≤ 1 ms, all channels
Data format	16 bit integer (2's complement)
Diagnostic	Diagnostic, Field power OFF: all LEDs blinking, Field power ON: LED OFF < 0.5% (max. input value), Field power ON: LED ON > 0.5% (max. input value), Upper range: LED OFF > 21 mA, Lower range: LED OFF < 3 mA (4 ~ 20 mA)
Indicators	4 green + 4 red input status, 1 green module status
Input current range	4 - 20 mA
Input impedance	270 Ω
Inputs per module	4 channels single ended, non-isolated between channel
Module accuracy	±0.1% full scale @ 25°C ambient, ±0.3% full scale @ -40°C, 70°C
Resolution in ranges	16 bits (include sign), 15 bits: 0.49 uA/bit (4 – 20 mA)

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