



M5914

HART Communication module

4 channel HART interface (single ended)

4~20 mA

16 bit resolution

HART Revision 5

Hotswap

18pt removable terminal block (RTB18C)

Facts

General description

Article number	100-8259
Warranty	Up to 2 years
Article status	Active
Shock operating	IEC 60068-2-27 (15G)
Vibration resistence	Sine vibration (based on IEC 60068-2-6), DNVGL-CG-0339 (Vibration Class B, 4G)
Industrial emissions	EN 61000-6-4/2019
Industrial immunity	EN 61000-6-2 : 2019
Installation position	Horisontal, Vertical
Power dissipation	Max. 30 mA @ 5.0 VDC
Isolation	I/O to Logic : Isolation
Field power	Supply voltage: 24 VDC nominal, Voltage range: 18~28.8 VDC, Power Dissipation: Max. 10 mA @ 24 VDC
Weight	72g
Module size	12 x 110 x 75 mm

Certifications

General	CE, FCC, UL, cUL
Hazardous	UL C1D2, ATEX (Zone2)
Marine	DNV GL
Safety	UL508, CAN/CSA C22.2 No.142-M1987

Environmental

Mounting	35mm DIN rail
Operating temperature	-25 ~ 60°C
Storage temperature	-40 ~ 85°C
UL temperature	-25 ~ 60°C
Relative humidity	5 ~ 90% non-condensing

Analog input module specifications

Calibration	Not required
Common type	4 Common, Field Power 0V is Common(AGND)
Conversion time	30 msec / All channel
Data format	16 bits Integer (2 ¹ compliment)
Etc function	HART Revision 5, Open circuit detection I _{meas} < 3.5 mA, Short circuit detection I _{meas} > 22mA
Indicators	4 Green & 4 Red Input status
Input current range	4~20 mA
Input impedance	270 Ω
Inputs per module	4 channels single ended, non-isolated between channels
Module error	±0.1% Full Scale @ 25°C ambient, ±0.3% Full Scale @ -25°C~60°C
Resolution in ranges	16 bits (Include Sign), 15 bits : 0.49 uA/Bit(4~20 mA)

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