

Analogue Input – RTD

SAG5004



Introduction

RTD's are devices that are considered "Simple Apparatus" and can be incorporated into IS loops with as long as an appropriate Barrier is used with it. 3-wire RTD's can be accommodated by using the SAG5000 series. This device has matched, resistance balanced channels that prevent any offset between channels.

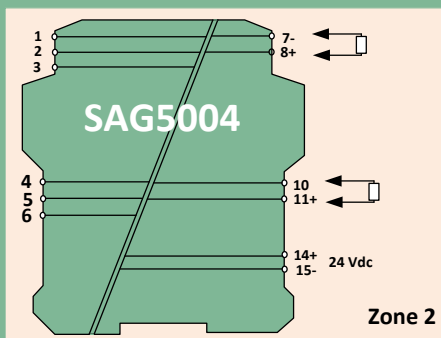
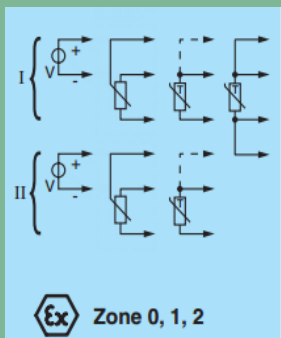
Barrier's Function

This isolated barrier is used for intrinsic safety applications. The device converts the signal of a resistance thermometer, thermocouple, or potentiometer to a proportional output current.

The device can also be configured as a signal splitter.

Technical Specifications

| | |
|----------------------|---|
| ATEX Approval | II (1)GD, I (M1), [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C ≤ T; zone 0/1/2] II 3G Ex nA II T4 [device in zone 2] |
| Environment | Operating Temperature: -20 to +60 °C IP Rate: IP20 |
| Power Supply | 20 ... 30 V DC |
| Input | RTD type Pt10, Pt50, Pt100, Pt500, Pt1000 thermocouple type B, E, J, K, N, R, S, T |
| Output | 0 ... 5 V or 1 ... 5 V output resistance: ≤ 5 Ω ; load: ≥ 10 kΩ |
| Dimensions | 100*115*25 mm |
| Weight | approx. 100 gr |
| Etc. | 2 channels, Up to SIL2 |



About Communication SAG Company:

Our mission is developing and producing the general and specific communication parts base on standard communication protocols in Gas, Oil, Petrochemical, Power and Water files.

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