

# Analogue Input – RTD

## SAG5002



### 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.

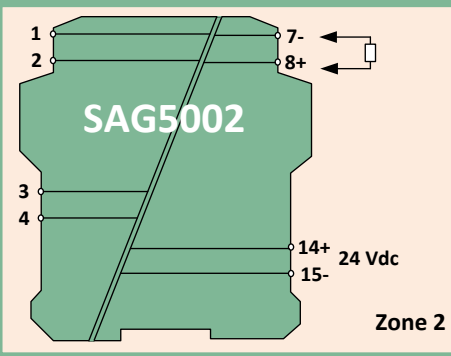
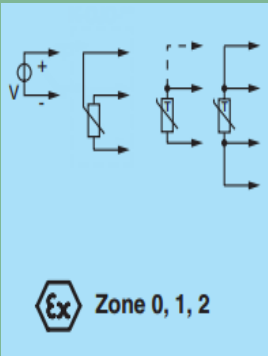
### Barrier's Function

This isolated barrier is used for intrinsic safety applications. It is designed to connect RTDs, thermocouples, or potentiometers in the hazardous area, and provide a proportional 0/1 V... 5 V signal to the safe area.

The barrier offers 3-port isolation between input, output, and power supply.

### Technical Specifications

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



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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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