

# Analogue Input - 2-wire transmitters, 4-20mA



## SAG3001+



### Introduction

Barriers for transmitters with conventional or signals can be accommodated using the SAG3000 series. Typical applications would use the SAG3000 series where the compliance voltage is lower than HART units. The SAG3000 series can be used in the lower Gas groups (C&D) where more compliance voltage is required or a higher load at the controller is present. HART Analog Input applications should use the SAG3000 series.

### Barrier's Function

This isolated barrier is used for intrinsic safety applications. The device supplies 2-wire transmitters in the hazardous area, and can also be used with current sources. It transfers the analog input signal to the safe area as an isolated current value. Bi-directional communication is supported for SMART transmitters that use current modulation to transmit data and voltage modulation to receive data. The output is selected as a current source, current sink, or voltage source via DIP switches.

### Technical Specifications

<b>ATEX Approval</b>	II (1)G [Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC I (M1) [Ex ia Ma] I II 3G Ex nA IIC T4 Gc
<b>Environment</b>	Operating Temperature: -20 to +60 °C IP Rate: IP20
<b>Power Supply</b>	19 to 30 V DC ≤45 mA
<b>Input</b>	4 ... 20 mA , limited to approx.27mA reverse polarity
<b>Output</b>	4 .. 20 mA or 1 .. 5 V (on 250 Ω, 0.1 % internal shunt) 4 .. 20 mA (sink mode), voltage 14 ... 25 V
<b>Dimensions</b>	100*115*25 mm
<b>Weight</b>	approx. 100 gr
<b>Etc.</b>	Low Power dissipation, 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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