

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



SAG3003+



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 and 3-wire SMART transmitters in a hazardous area, and can also be used with 2-wire SMART current sources.

It transfers the analog input signal to the safe area as an isolated current value. Digital signals may be superimposed on the input signal in the hazardous or safe area and are transferred bi-directionally. If the HART communication resistance in the loop is too low, the internal resistance of 250 Ω can be used.

Technical Specifications

ATEX Approval	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
Environment	Operating Temperature: -20 to +60 °C IP Rate: IP20
Power Supply	20 to 35 V DC
Input	0/4 ... 20 mA
Output	0/4 ... 20 mA (overload > 25 mA)
Dimensions	100*115*25 mm
Weight	approx. 100 gr
Etc.	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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