



TSB-31.1 AND TSB-31.2 INTRINSIC SAFETY BARRIERS

Protection system for explosive environment

The TSB-31 is an intrinsic safety barrier which allows to avoid the high voltages and to secure the transmission of the signals in explosive environments.

Four safety barriers have been developed:

TSB-31.1 10V100mA: specially designed to protect the lines of communication RS-232, it can also be used to transmit the analog and digital signals.

Usable in zone 1 or in Ex zone 2, the barrier TSB 31.1 allows, for example, an application with a gas volume corrector.

TSB-31.2 10V100mA: this barrier has the same utility as TSB 31.1 but it is a category 3 and can be only used for Ex zone 2.

TSB-31.2 10V20mA: specially designed to provide the connection with meters having a SCR interface (GWF Coder), installed in Ex zone 2.

TSB-31.2 16V110mA: this barrier can read 4-20mA probes in Ex zone 2.

The TSB is planned for signals: RS-232 (PC), RS-485, RS-422, analog, digital and impulse.

Advantages of TSB-31 :

- ✓ ATEX Certified
- Safe transmission with meters and sensors installed in ATEX zones 1 or 2
- ✓ Passive barrier (does not require a power supply)
- ✓ Enclosure IP65 (case not needed)
- ✓ 4 channels
- ✓ Fixation on Rails DIN





Remote control and measure

