



## INTRINSICALLY SAFE PRESSURE TRANSMITTERS FOR GAS AND DUST ATMOSPHERES

## 25Y-Ei

These piezoresistive pressure transmitters with ATEX and IECEx certifications are approved for use in highly explosion risk areas of group II (gas and dust).

The Y-line transmitters have an extremely small temperature error. This is achieved using an additional circuit containing a temperature sensor that subdivides the temperature range into fields that are 1,5 Kelvin (K) wide. The TK zero and TK compensation values are calculated for each field and programmed into the additional circuit. During operation, these values are fed into the analogue signal path depending on the temperature. Each temperature is the «calibration temperature» for this transmitter. The accuracy thereof is mainly determined by linearity. 120 fields are available, representing a possible temperature range of 180 K. The wider the temperature range, the greater the amount of testing that is needed to minimise the inaccuracy of the mathematical model.

### A Comprehensive Range

Absolute, barometric, gauge (positive and negative pressures). Many nominal pressure ranges. Current or voltage output.



Series 25Y-Ei

### Ex-Classification:

Ex ia IIC T6–T4 Ga	IBEXU 10 ATEX 1124 X
Ex ia IIIC T 130 °C Da	II 1GD
IECEx IBE 14.0044 X	CE 0081



