



Name : **SENSE Differential Pressure Transmitter with HART-protocol STK335**

Type : STK335

Specifications :

- Maximum range trundown 100:1
- Backlight LCD display for the dark environment
- Separate electronics and connection compartments
- Excellent stability
- Three-key adjustment

Power supply (polarity protected) :

* **Supply voltage :** 10.5...45 VDC

Output signal :

* **2-wire-system :** 4...20 mA with superimposed signal for HART protocol digital communication

* **Signal range:** 3.8mA...22.8mA

* **Signal on alarm :** 3.8mA/ 22.8mA/Others on request

Electrical protection :

* **Insulation resistance :** >250M

* **Short-Circuit protection :** Permanent

* **Reverse polarity protection :** No damage, and no function

* **Overvoltage protection :** 500 V

Performance :

* **Accuracy :** 3S
0.1% accuracy for range trundown 5:1 (0.1+0.01XURL/Span) between 1/5 and 1/50 of measuring

4S...7S
0.075% accuracy for range trundown 10:1 ($0.075+0.00751XURL/Span$)
between 1/10 and 1/100 of measuring

8S
0.2% accuracy for range trundown 10:1 ($0.2+0.01XURL/Span$) between 1/10
and 1/100 of measuring

- * **Static pressure effect** : Zero error: 0.1%/7Mpa
Span error: 0.2%/7Mpa
- * **Power supply effect** : Negligible
- * **Vibration effect** : <0.01% of URL /g when tested 200Hz in any axis relative
- * **Installation position effect** : Zero shift which can be calibrated out, no span effect
- * **Thermal effect** : 0.45%/55 °C
- * **Static pressure** : 30bar...130bar
- * **Stability** : 0.1% of URL/1 year
- * **Switch on delay** : 5s
- * **Cycle time/Updater time** : 0.25s
- * **Damping** : 0 to 100s, step: 0.1s
- * **Response time** : 200 ms (without consideration of electronic damping)
- * **Self stability configuration** : 0 to 2%
- * **Filter configured** : 0 to 160 uA

Application conditions:

- * **Humidity** : 5...98%
- * **Ambient and operation** : -40-85°C (without display), -20-70°C (with display)
- * **Storage** : -40-85 °C
- * **Ingress protection** : IP 65
- * **Electromagnetic compatibility(EMC)**: Interference immunity and interference emission according to
GB/T17626.2-1998), compliance with IEC 61000-4-3:1995.