

**Pressure Transmitters>> STK335**



<b>Name :</b>	<b>Differential Pressure Transmitter with HART-protocol STK335</b>
<b>Type :</b>	STK335
<b>Specifications :</b>	<ul style="list-style-type: none"> <li>• Maximum range trundown 100:1</li> <li>• Backlight LCD display for the dark environment</li> <li>• Separate electronics and connection compartments</li> <li>• Excellent stability</li> <li>• Three-key adjustment</li> </ul>

**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 :**

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