



Name :	SENSE Pressure transmitter STK137
Type :	STK137
Specifications :	<ul style="list-style-type: none"> • Ceramic sensor with diaphragm Al₂O₃, 99.9% • Silicon sensor (Optional) • Separate electronics and connection compartments • Easily accessible operation elements on the outside of the instrument • Range: -0.1 ~ 70MPa

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
- * 3-wire-system (optional):1...5V
- * Signal range:3.8mA...22.8mA
- * Signal on alarm :3.8mA/ 22.8mA/Others on request

Electrical protection :

- * Insulation resistance :>250M Ω
- * Short-Circuit protection :Permanent
- * Reverse polarity protection :No damage, and no function
- * Overvoltage protection :500 V

Performance :

- * Accuracy :Nominal range 0.1%
0.25% accuracy for range turndown 4:1

0.5% accuracy for range turndown 10:1

- * Power supply effect :Negligible
- * Vibration effect : <0.01% of URL /g when tested 200Hz in any axis relative
- * Thermal effect : $\pm 0.05\%/10K$
- * Compensated temperature range of sensor:-20...80°C
- * Permissible load: $\leq 50(V-12)\Omega$
- * Stability:0.1% FSO/Year
- * Switch on delay :5s
- * 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
- * Adjustability :Zero-adjustment screw
- * Communication resistance for HART Protocol:Typ. 250 Ω

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.