

Pressure Transmitter STK131



- Fixed measuring ranges up to 600bar
- Compact construction
- Simple mounting
- Excellent long term stability
- Long operational life
- Low price
- Option: HART-Communication
- LED display

SENSE pressure transmitter STK131 with ceramic thick film sensor is suitable for a wide variety of liquids, gases, and vapors.

It is a compact, economical system that provides measurement in gauge or absolute gauge measurement.

Nominal Pressure Ranges

From: 0...1bar

Up to 0...600bar

Mounting Simplicity

The STK131 can be mounted in any orientation (Vertical, Horizontal, or inverted) without affecting its performance.

M20X1.5 process connection (standard, others on request), 304SS

4 to 20mA output

10.5 to 45VDC power supply

Area for application

Compressed air

Non-aggressive gases

Vacuum technology

Pneumatics

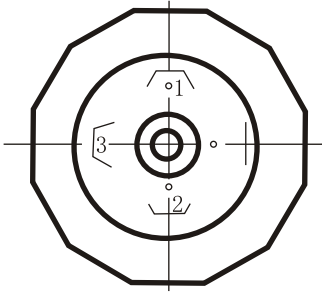
Technical data

Measuring range										
Pressure gauge(bar)	1	2	5	10	20	50	100	200	400	600
Max. Permissible Overload(bar)	4	5	12	25	50	120	250	500	650	880
Absolute Pressure(bar)	1	2	5	10	20	50				
Max. Permissible Overload(bar)	4	5	12	25	50	120				
Power supply(polarity protected)										
Supply voltage				10.5...45 VDC						
Output signal										
2-wire				4...20 mA(standard), Option: HART-protocol						
3-wire				1...5 V(optional)						
Performance										
Communication resistance(for HART-protocol)				250 Ω						
Accuracy				Nominal range 0.2%						
				0.25% accuracy for range trundown 1.5:1						
				0.5% accuracy for range trundown 2:1						
Permissible load				≤1000 Ω						
Long term stability				Typically 0.15% per year						
Rise time				200 ms (without consideration of electronic damping)						
Adjustability				Inside two push buttons						
Thermal effect				±0.02%FS/K						
Electrical protection										
Insulation resistance				>250MΩ						
Short-Circuit protection				Permanent						
Miswiring				No damage, and no function						

Overvoltage protection	500 V
Intrinsic safety	Exia II CT4~T6
Power supply influence	Negligible
Vibration effect	<0.01% of URL /g when tested 200Hz in any axis relative
Installation position	Any
Permissible temperature	
Medium	-30...85°C
Environment	-30...85°C
Storage	-30...85°C
Process connections	
Standard	M20X1.5
Optional	G1/2/NPT1/2/NPT1/4/G1/4 Others: on request
Materials	
Housing	304SS
Sensor	Ceramics Al ₂ O ₃
Seals	FPM/Others: on request
Process connection	304SS
Display(option)	
Type	4-digit, red LED display, digit height 7mm, digit width 4.85mm
Range	-1.9.9.9. To 9.9.9.9.
Others	
Ingress protection	IP65
Weight	Approx. 140g

Electrical Connection

Pin configuration



2-wire system:

- 1: Supply+
- 2: Supply-
- 3: GND

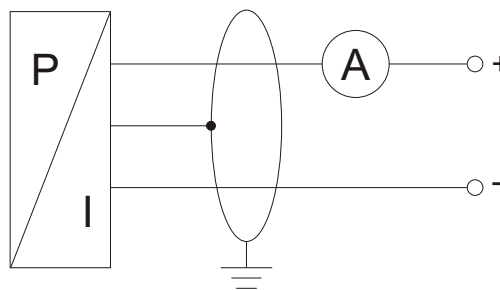
Power Supply: 10 to 45VDC
 Output Signal: 4 to 20mA

3-wire system:

- 1: Supply+
- 2: Supply- (Signal-)
- 3: Signal+

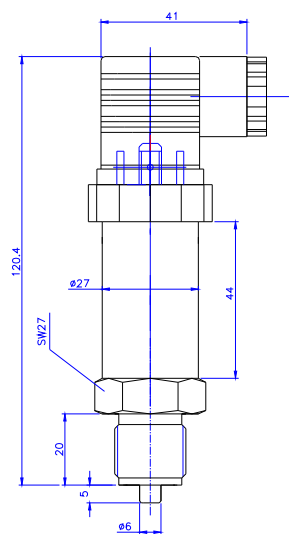
Power Supply: 10 to 45VDC
 Output Signal: 1 to 5V

Wiring diagrams

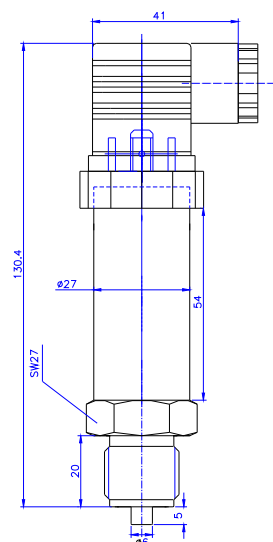


Dimensions

Dimensions

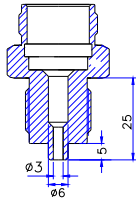


Standard

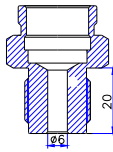


HART-protocol

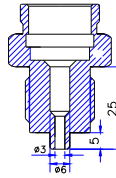
Total length of this transmitter with LEDD-01 increases by 47.7mm.


Mechanical Connection
Standard

M20X1.5 EN

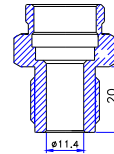
Ordering code: B

Optional

M20X1.5 DIN

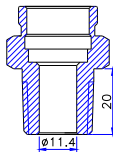
Ordering code: D


G1/2 " EN

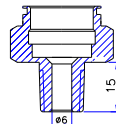
Ordering code: G


G1/2 " DIN

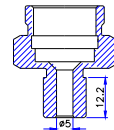
Ordering code: F


1/2 " NPT

Ordering code: N


1/4 " NPT

Ordering code: P


G1/4 "

Ordering code: H

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