

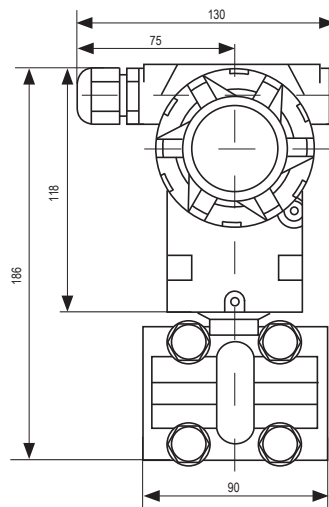


Differential Pressure Transmitter 差压变送器

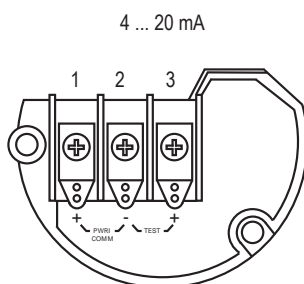
- Measuring span from 0 ... 0,01 bar to 0 ... 40 bar
- Output signal: 4 ... 20 mA + HART
- Maximum working pressure 400 bar
- With / Without LCD - display
- High accuracy
- Optimum long-term stability

- 测量量程从 0 ... 0,01 bar 到 0 ... 40 bar
- 输出信号: 4 ... 20 mA + HART
- 最大工作压力 400 bar
- 带或不带 LCD 显示
- 精度高
- 最佳长期稳定性

Drawing / 尺寸图



Wiring diagram / 接线图



Pin / 针	4 ... 20 mA (HART)
1	U _b +
2	S+
3	---

Technical Specification / 技术规范							
Pressure range (Capsule) 测量范围 (膜盒)	0 ... 0,01	0...0,06	0...0,4	0 ... 1	0 ... 4	0 ... 40	[bar]
Overload on the side 单边加压	10	20	50 {250}	70 {250}	100 {250}	100 {250}	[bar]
Overload on both sides 双边静压	160	160	250 {400}	250 {400}	250 {400}	250 {400}	[bar]
Measuring principle 测量原理	Mono-silicon / 单晶硅						
Display 显示屏幕	LCD						
Supply voltage 供电电压	12 ... 32						[V DC]
Output signal 输出信号	4 ... 20 mA + HART						
Permitted load 允许载荷	$\leq (U_b - 12V) / 0.02A$						
Current consumption 电流消耗	≤ 25						[mA]
Accuracy 精度	$\leq \pm 0.075$						[%]
Repeat accuracy 重复精度	$\leq \pm 0.05$						[% F.S.]
Damping 阻尼	0.00 ... 60.00 s adjustable 0.00 ... 60.00 秒可设置						[S]
Mounting position effects 安装位置影响	tilting up to 90 degree will cause zero shift about 200 Pa 倾斜 90 度会引起大约 200 Pa 的零点漂移						
Compensated temperature range 补偿温度范围	0 ... 70						[°C]
Temperature error zero point 零点温度误差	$\leq \pm 0.03$						[% F.S./K]
Temperature error range 量程温度误差	$\leq \pm 0.08$						[% F.S./K]
Operating temperature 工作温度	-30 ... +85						[°C]
Storage temperature 储存温度	-40 ... +85						[°C]
Ambient temperature 环境温度	-25 ... +85						[°C]
Response time 响应时间	≤ 100						[ms]
Vibration resistance 抗振动性	10g (20 ... 2000Hz) sinus acc. to DIN EN 60068-2-6 10g 符合 DIN EN 60068-2-6 在 20 .. 2000 Hz						
Shock resistance 抗冲击性	100 g; 11 ms; DIN EN 60068-2-27 100g, 11 ms 符合 DIN EN 60068-2-27						
Housing 外壳材质	Aluminum die-casting 压铸铝						
Wetted parts 接触部件	Diaphragm: 316L, Tantalum, C276, Gold-Rhodium coated Sealing material: NBR, FKM Process connection: 316L, C276 隔离膜片: 316L, 钽, 哈氏合金 C276, 316L 镀金 密封材质: NBR, FKM 过程连接: 316L, C276						
Fitting thread 过程连接	1/4NPT", 1/2NPT female thread (others on request) 1/4NPT", 1/2NPT 内螺纹 (其他按要求提供)						
Electrical connection 电气连接	Cable gland 格兰头						
Protection degree 防护等级	IP65						

Series 8551 / 8551 系列

Differential Pressure Transmitter / 差压变送器

aumarg
SENSORS & CONTROLS

Specification key / 规格代码

8551 - - - - - - - - - - -

Measuring range (Capsule) / 测量范围 (膜盒)	
L1	0,01 bar
L2	0,06 bar
M1	0,4 bar
M2	1 bar
M4	4 bar
H1	40 bar

Calibration range lower range value / 标定量程下限	
X	enter value in bar (e.g. 0 eq. 0 bar) 以 bar 为单位输入值 (例如 0 代表 0 bar)

Calibration range upper range value / 标定量程上限	
XXX,XX	enter value in bar (e.g. 016,00 eq. 16,00 bar) 以 bar 为单位输入值 (例如 016,00 代表 16,00 bar)

Accuracy / 精度等级	
22	0,25%
21	0,1%
20	0,075%

Display / 显示屏幕	
W	without / 无
C	LCD

Pressure fitting / 过程连接	
63	1/4" NPT female
65	1/2" NPT female

Wetted parts / 接液材质		
B	D: 316L	P: 316L
M	D: C276	P: 316L
L	D: Tantalum	P: 316L
J	D: Gold-Rhodium coated	P: 316L
X	D: C276	P: C276

*D=Diaphragm P=Process connection

Filling liquid / 填充液	
S	Silicone oil / 硅油
F	Fluorine oil / 氟油

Damping / 阻尼	
XX	enter value in S (e.g. 02.00 eq. 2 S) 以秒为单位输入值 (例如 02.00 代表 2 秒)

Output signal / 输出信号	
29	4 ... 20 mA + HART

Sample:

8551-M4-0-02,50-20-C-29-02,00-S-B-63

Differential Pressure Transmitter

Type: 8551

Measuring range (capsule): 4 bar

Calibration range: 0 ... 250 kPa

Accuracy: 0,075%

Display: LCD

Output signal: 4 ... 20 mA + HART

Power supply: 12 ... 30V DC

Filling liquid: Silicone oil

Wetted parts: Diaphragm:316L

Process connection: 316L

Operating temperature: -30 ... +85°C

Pressure fitting: 1/4" NPT female

Protection type: IP65

Technical data subject to change without notice. / 技术资料如有更改, 恕不另行通知。

举例:

8551-M4-0-02,50-20-C-29-02,00-S-B-63

差压变送器

型号: 8551

测量范围 (膜盒): 4bar

标定范围: 0 ... 250 kPa

精度等级: 0,075%

显示屏幕: LCD

输出信号: 4 ... 20 mA + HART

供电电压: 12 ... 30V DC

填充油: 硅油

接液材质: 隔离膜片: 316L

过程连接: 316L

介质温度: -30 ... +85°C

过程连接: 1/4" NPT 内螺纹

防护等级: IP65