

铠装式， 温度变送器

Armored
Temperature Transmitter

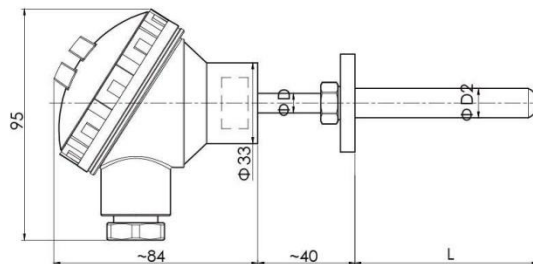
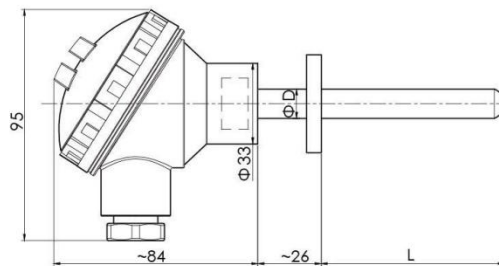
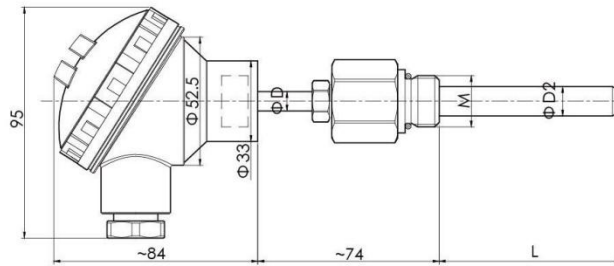
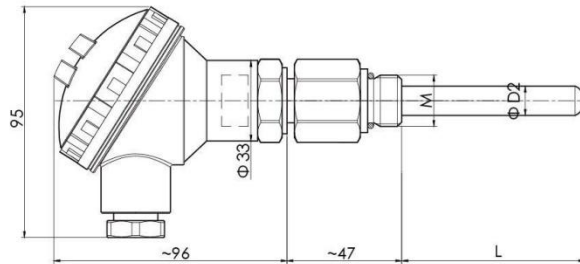
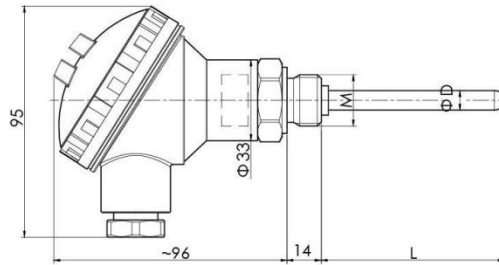
SDT5300系列

应用于工业及机械、液压、化工领域

- 精度 $\leq 0.02\%$ F.S.
- 很强的抗污染
- 优良的机械强度及绝缘性能
- EMC屏蔽和CE认证
- 热响应时间快
- 抗震性能好
- 使用寿命长
- 适宜于安装在装配式温度传感器无法满足要求场合和环境比较恶劣的场合



外形尺寸图 **Dimensions**



53-系列 温度传感器

技术参数 Technical Parameter

参数	Specifications	技术指标	Technical Data
输入数据 Input data			
温度范围	Measuring range	Type K, 0~1200℃ 输入阻抗 ≥1MΩ Type J, 0~1000℃ 输入阻抗 ≥1MΩ Type E, 0~800℃ 输入阻抗 ≥1MΩ Type T, -50~400℃ 输入阻抗 ≥1MΩ Pt100, -100~500℃ 输入阻抗 ≥10MΩ	
探头长度	Probe length	0..2000mm (可选)	
耐压性	Pressure resistance	600Bar	
输出数据 Output data			
输出信号	Output signal	4~20mA / 电阻输出(可选)	
精度	Accuracy	RTD(Pt100):±0.15% of R.O. T/C(K,J,E,T):±0.3% of R.O.	
响应时间	Response time	≤300m/Sec	
增益调整	Gain adjustment	≤10% of R.O.	
零点调整	Zero point adjustment	≤5% of R.O.	
环境条件 Ambient conditions			
环境温度范围	Ambient temperature range	-10..+60℃	
储存温度范围	Storage temperature range	-10..+70℃	
流体温度范围	Fluid temperature range	-50..+1200℃(可选)	
相对湿度	Relative Humidity	20~95%RH	
温度系数	Temperature Coefficient	≤100PPM/℃	
冷端补偿	Compensation	25±10℃,误差≤0.5℃	
防护等级	Protection class to DIN 40050	IP67	
其他数据 Other data			
电源电压	Supply voltage	24VDC(16~36VDC)	
开路保护	Open circuit protection	Upscale>22mA	
输出脉动	Output ripple	≤0.3% of R.O.	
材质	Material	壳体: 铝合金; 探头: 不锈钢	

选型表 Model code:

SDT 53 X X - X - X - XX - XXXX - X - X

机械连接 Mechanical connection

- 1 = G1/2-B DIN 3852 (male)
- 4 = G1/4-A DIN 3852 (male)
- 5 = G3/8-A DIN 3852 (male)
- 6 = R1/4
- 8 = 1/4-18 NPT
- A = M20×1.5
- B = M12×1
- E = 1/8 NPT
- F = R3/8
- G = M10×1
- H = R1/2
- O = 3/8-18 NPT
- P = 1/2-14 NPT
- Q = Φ42mm, flang
- M = 客户定制

电气连接 Electrical connection

- 0 = 直接出线

输出信号 Output

- A = 4...20mA 2 线制
- o = 电阻输出

操作温度 (°C) Operating temperature in °C

- A = -50~+100°C
- B = -10~+40°C
- D = 0~+100°C
- E = 0~+200°C
- G = 0~+500°C
- J = 0~+1000°C
- M = 客户定制(-100~1200°C 范围内可选)

管径大小 (mm) Tube diameter mm

- 03 = 3.0mm
- 04 = 4.0mm
- 06 = 6.0mm
- 08 = 8.0mm
- 10 = 10mm
- 12 = 12mm
- O = Specify

内置长度 L (mm) Built-in length L in mm

- 0060: L=60mm
- 0120: L=120mm
- 1500: L=1500mm
- 插入深度30~2000mm范围内可选

输入方式 Input

- K = Type K, 0~1200°C 输入阻抗 ≥1MΩ
- J = Type J, 0~1000°C 输入阻抗 ≥1MΩ
- E = Type E, 0~800°C 输入阻抗 ≥1MΩ
- T = Type T, -50~400°C 输入阻抗 ≥1MΩ
- P = Pt100, -100~500°C 输入阻抗 ≥10MΩ

保护管 Protective tube diameter

- 1 = G1/2-B DIN 3852 (male)
- 4 = G1/4-A DIN 3852 (male)
- 5 = G3/8-A DIN 3852 (male)
- 6 = R1/4
- 8 = 1/4-18 NPT
- A = M20×1.5
- B = M12×1
- E = 1/8 NPT
- F = R3/8
- G = M10×1
- H = R1/2
- O = 3/8-18 NPT
- P = 1/2-14 NPT
- Q = Φ42mm, flang
- M = 客户定制

接线定义 Pin connections:

