

食品专用一体化温度变送器

概述：

- ◇ 热电阻设计用于中低压力过程中的温度测量，测量范围 -200~+600 ，可以满足绝大多数测温需求。
- ◇ 热电阻形式有 PT100 和 PT1000。变送器可以将铂电阻的电阻信号转换成线性温度信号 4-20mA 或 0-10V
- ◇ 可以提供不同的过程接口，例如可动卡套螺纹等要求快速响应时间时，可以选用锥形保护管。
- ◇ 电气接口为 L 型插头，符合 DIN EN 175301-803
- ◇ 与过程介质接触的部件均用不锈钢制成。

特性：

结构紧凑，尺寸小； 便携式；

价格低廉； 交货时间短； 互换性好；

选项带变送器：4-20mA 或 0-10V

应用于：食品、制药、供热、冷却、空调技术回路、环境工程

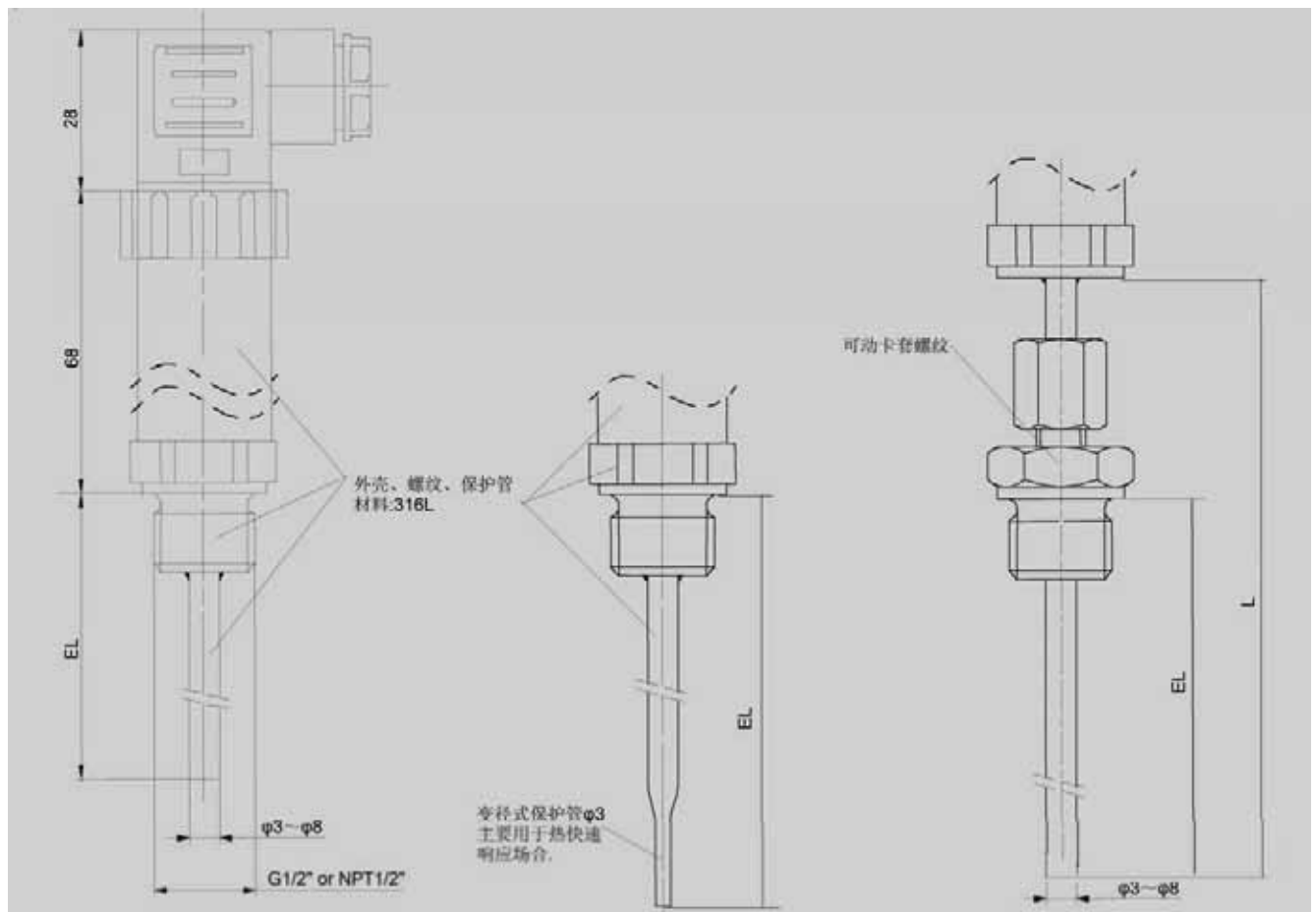
测温范围（带变送器）

0-50℃ 0-100℃ 0-120℃

待定客户要求



外形结构



技术参数：

	铂电阻		铂电阻+变送器	
型号	T85/2 二线制 T85/4 四线制	T85/3 三线制 T85/22 2×二线制	T85/20 T85/10	4-20 mA 0-10 V
传感器	标准 PT100 B 级 选项 PT100 A 级	标准 PT1000 B 级 选项 PT1000 A 级	标准 PT100 B 级 选项 PT100 A 级	
输出信号和电源电压	PT100	PT1000	4-20mA, 二线制 电源电压: 10-30V DC 纹波: <10% 0-10V 三线制 电源电压: 12-30 V DC 纹波: <10%	
铂电阻精度	A 级: +/- (0.15+0.002 t)	A 级: +/- (0.15+0.002 t)	A 级: +/- (0.15+0.002 t) B 级: +/- (0.3+0.005 t)	
温度范围	标准: - 50 ~ +200 - 50 ~ +600	- 50 ~ +400 - 200 ~ +600	0-50 0-100 0-120	
测温范围	参阅温度范围	参阅温度范围	任选测温范围 标准形式 最小范围: 50 最大范围: 250 高温形式: 最小范围: 150	
过程接口	固定螺纹: G3/8A, G1/4A, G 1/2A, G3/4A, 1/2 NPT, 1/4 NPT, M14 × 1.5 可动卡套螺纹; G 1/2A, G1/4A, G3/8A, G3/4A, 1/2 NPT 其他接口可协商订购			
材料	不锈钢 316L 其他材料或涂层可协商订购			
保护管长度和压力范围	3 锥形快速响应保护管 12bar , 保护管长度 25mm 3*0.3mm 保护管长度 50mm 升至 100mm 6*0.3mm 带锥形保护管 3*0.3mm 保护管长度 150mm, 8*1.75mm 带锥形保护管 6*0.3mm 带锥形保护管 3*0.3mm 6*0.75mm 保护管 50mm 至 500mm 40bar 8*1.75mm 保护管 50mm 至 1000mm 100bar 特殊材料制造的特殊部件压力 600bar			
精确度	变送器<0.25%*测温范围			
环境温度	连接器处 125 带变送器			
贮存温度	-40 85			
电气接口	L 型插头符合: DIN EN			
抗电磁干扰	抗辐射干扰符合: DIN EN 61326 断电影响符合: DIN EN 61326			
外壳防护等级	IP65 符合 DIN EN 60529/IEC 529			

Integral temperature sensor for foods application (Sanitary specifications applied)

Description

- ✧ It is designed for temperature measurement in processes with the medium and low pressures. Measurement ranges between -200 ~ +600 cover the majority of your temperature measuring tasks.
- ✧ The thermometers are available with platinum sensors PT100 and PT1000. The transmitter converts the resistance of the platinum sensor into a linear temperature signal 4-20mA or 0-10V
- ✧ Different process connections, as well as adjustable compression fittings underline the variability of this measuring instrument. To achieve fast reaction times a version with a tapered stem is also available.
- ✧ The electrical connection is realized with an L-plug according to DIN EN 175301-803
- ✧ All thermometer parts which get in contact to the process medium are made of stainless steel.



Features

Compact dimensions; easy handling; cost efficient; short delivery times; simple exchanges; optional with transmitter 4-20mA or 0-10V

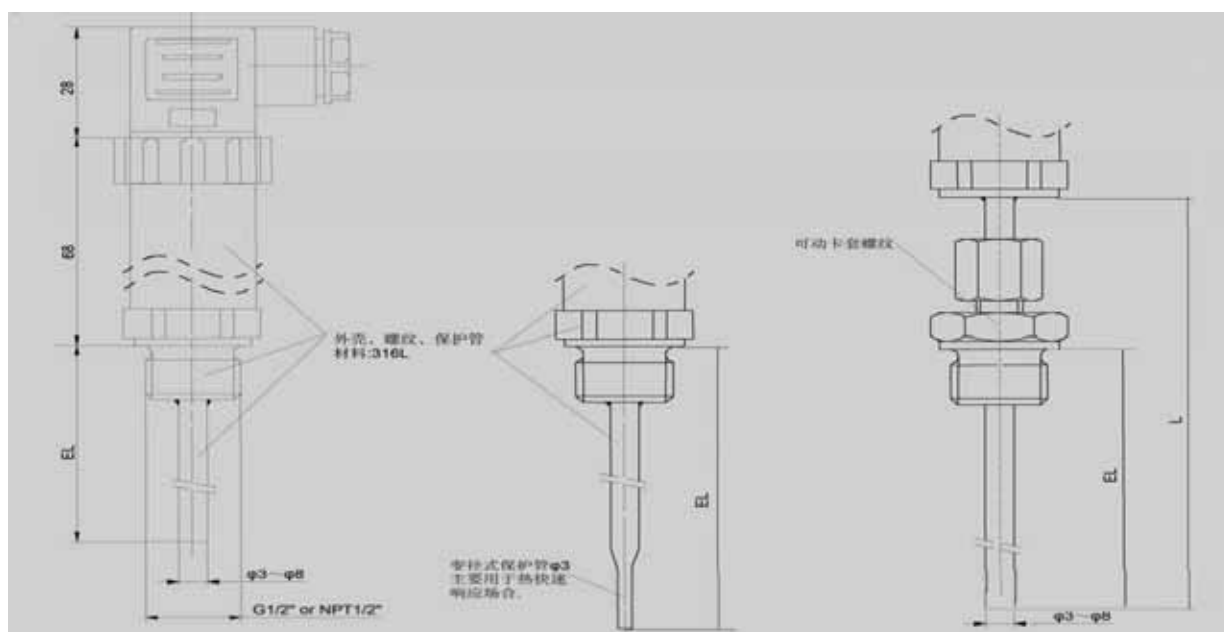
Applications: Food industry; Pharmacy; Heating and cooling circuits, air condition technology; Environment engineering

Measuring ranges (with transmitter)

0-50 0-100 0-120

According to customers requirements

Dimensions



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Technical data :

	PT		PT+transmitter
Model	T85/2 → 2-wire T85/4 → 4-wire	T85/3 → 2-wire T85/22 → 2×2-wire	T85/20 → 4-20 mA T85/10 → 0-10 V
Sensor	Standard PT100 Class B Optional PT100 Class A	Standard PT1000 Class B Optional PT1000 Class A	Standard PT100 Class B Optional PT100 Class A
Output signal and supply voltage	PT100	PT1000	4-20mA 2-wire Supply voltage : 10-30V DC Ripple : <10% 0-10V 3-wire
Class	Class A : +/- (0.15+0.002 t)	Class A : +/- (0.15+0.002 t)	Class A : +/- (0.15+0.002 t) Class B : +/- (0.3+0.005 t)
Temperature range	Standard : - 50 ~ +200 - 50 ~ +600	- 50 ~ +400 - 200 ~ +600	0-50 0-100 0-120
Measuring range	See temperature range	See temperature range	Selectable measuring ranges Standard versions minimum ranges : 50 maximum range : 250 high temperature version : minimum ranges : 150 maximum range : 800
Process connections	Fixed thread : G3/8A, G1/4A, G 1/2A , G3/4A, 1/2 NPT, 1/4 NPT, M14 × 1.5 Adjustable compression fitting ; G 1/2A, G1/4A, G3/8A, G3/4A, 1/2 NPT Other connections on request		
Material	Stainless steel 316L Other materials or coatings on request		
Stem length and pressure ranges	φ3mm fast reaction version with tapered stem up to 12bar , Stem length 25mm φ3*0.3mm Stem length 50mm up to 100mm φ6*0.3mm with tapered stemφ3*0.3mm From stem 150mm:φ8*1.75mm with tapered stemφ6*0.3mm with tapered stemφ3*0.3mm φ6*0.75mm from stem 50mm to 500mm: up to 40bar φ8*1.75mm from stem 50mm to 1000mm: up to 100bar special parts manufactured from full material for pressures up to 600bar		
Accuracy	Transmitter: <0.25% of measuring range		
Ambient	At connector max. 125 with transmitter max. 85		
Storage temperature	-40 up to 85		
Electrical connection	L-plug acc. To DIN EN 175301-803		
EMC resistance	Emitted interference acc. DIN EN 61326 breakdown effect acc. To DIN EN 61326		
Protection Class	IP65 acc. To DIN EN 60529/IEC 529		