

Temperature Sensors for Sanitary Applications | YYQS Series

The resistance temperature detectors in the YYQS series are made to sanitary specifications and are suitable for temperature measurement in food and pharmaceutical manufacturing processes.



Specifications

Resistance temperature detector

| | |
|---------------------------------------|--------------------------------------|
| Standards compliance | JIS C 1604 |
| Resistor type | Pt100Ω, JPt100Ω |
| Tolerance | Class B, class A |
| Number of elements | 1 element, 2 elements |
| Conductor method | Three-conductor method |
| Protection tube material | ASTM SUS316L (equivalent to SUS316L) |
| Sheath protection tube outer diameter | φ3.2, φ4.8, φ6.4, φ8.0 |

| | |
|-------------------------------------|---|
| Specified current value | 1 mA |
| Measurement range | -40 to +250 °C |
| Terminal box ambient temperature | 0 to 90 °C |
| Protection tube pressure resistance | 1 Mpa |
| IDF-compliant ferrule cap | 15 A, 1 S, 1.5 S, 2 S, 2.5 S, 3 S, 3.5 S, 4 S |
| Ferrule cap material | SUS316L |

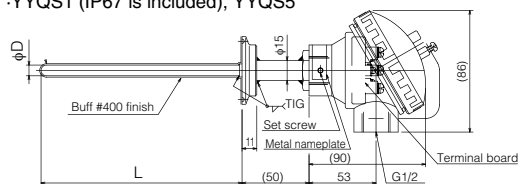
Model No. configuration

Ex.: YYQS1P615N030001

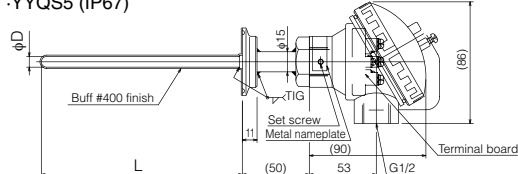
| Basic model No. | Terminal box/attachment method | Sensor type | Protection tube outer diameter (mm), φD | Protection tube length (mm), L | Option 1 | Attachment size | Treatment method | Certificate | Option 2 | Tolerance class & inspection results | Remarks |
|-----------------|--------------------------------|-------------|---|--------------------------------|----------|-----------------|------------------|-------------|----------|--------------------------------------|---|
| YYQS | | | | | | | | | | | Sanitary specifications (buff #400 finish, no-oil, no-water treatment) |
| | 1 | | | | | | | | | | Terminal box: die-cast aluminum. Attachment method: single-ferrule cap |
| | 5 | | | | | | | | | | Terminal box: die-cast aluminum Attachment method: double-ferrule cap |
| | | P | | | | | | | | | Pt100Ω |
| | | J | | | | | | | | | JPt100Ω |
| | | | 3 (φ3.2 mm) | | | | | | | | |
| | | | 4 (φ4.8 mm) | | | | | | | | |
| | | | 6 (φ6.4 mm) | | | | | | | | |
| | | | 8 (φ8.0 mm) | | | | | | | | |
| | | | | 05 (50 mm) | | | | | | | Length is freely selectable from 50 to 1,500 mm Increments: Less than 1,000 mm: 10 mm 1,000 mm or more: 100 mm |
| | | | | 10 (100 mm) | | | | | | | |
| | | | | 15 (150 mm) | | | | | | | |
| | | | | 20 (200 mm) | | | | | | | |
| | | | | 35 (350 mm) | | | | | | | |
| | | | | 50 (500 mm) | | | | | | | |
| | | | | 75 (750 mm) | | | | | | | |
| | | | | A0 (1,000 mm) | | | | | | | |
| | | | | A5 (1,500 mm) | | | | | | | |
| | | | | | NO | | | | | | |
| | | | | | | 1 | | | | | 15 A |
| | | | | | | 2 | | | | | 1 S |
| | | | | | | 3 | | | | | 1.5 S |
| | | | | | | 4 | | | | | 2 S |
| | | | | | | 5 | | | | | 2.5 S |
| | | | | | | 6 | | | | | 3 S |
| | | | | | | 7 | | | | | 3.5 S |
| | | | | | | 8 | | | | | 4 S |
| | | | | | | | | 0 | | | None |
| | | | | | | | | 1 | | | IP67 |
| | | | | | | | | E | | | Electrolytic polishing |
| | | | | | | | | F | | | IP67 + electrolytic polishing |
| | | | | | | | | | 0 | | None |
| | | | | | | | | | 1 | | With no-oil, no-water treatment certificate |
| | | | | | | | | | 2 | | With electrolytic polishing treatment certificate |
| | | | | | | | | | 4 | | With material certificate |
| | | | | | | | | | 3 | | With certificates for no-oil, no-water treatment + electrolytic polishing treatment |
| | | | | | | | | | 5 | | With certificates for no-oil, no-water treatment + material |
| | | | | | | | | | 6 | | With certificates for electrolytic polishing treatment + material |
| | | | | | | | | | 7 | | With certificates for no-oil, no-water treatment + electrolytic polishing treatment + material |
| | | | | | | | | | 0 | | None |
| | | | | | | | | | 0 | | Class B, without inspection results |
| | | | | | | | | | D | | Class B, with inspection results |
| | | | | | | | | | Y | | Class B, with JCSS calibration certificate |
| | | | | | | | | | 1 | | Class A, without inspection results |
| | | | | | | | | | E | | Class A, with inspection results |
| | | | | | | | | | W | | Class A, with JCSS calibration certificate |

External dimensions (unit: mm)

·YYQS1 (IP67 is included), YYQS5



·YYQS5 (IP67)



Note: Recalibration is available for temperature sensors whose protection tube is 350 mm in length or longer.
•Other shapes are also available.