

# SENSORS WITH CONNECTION HEADS

## Thermocouple and RTD Spring-Loaded Replacement Elements

Thermocouple and RTD spring-Loaded Replacement elements are designed for spring-loaded thermowell assemblies. The replacement elements can be ordered by selecting the sensor type below and inserting the "X" length in table 2-0. The RTD assemblies are supplied with a 316 stainless steel sheath and are available in various tolerances and temperature ranges as noted in the tables below. The MgO-insulated thermocouple assemblies are supplied with a 316 stainless steel sheath, various calibrations, and as standard limits of error.



### ORDER CODES

Configuration Code GP06

**Thermocouple**  
**Example Order Number:**

1-0 1-1 2-0 3-0 4-0  
**J48 U - 012 - SL - 22(06)**

#### 1-0 Thermocouple Types

CODE			AVAILABLE SHEATH DIAMETERS (316 SS)	
SINGLE	DUPLEX	TRIPLEX	3/16" O.D.	1/4" O.D.
E	EE	-	38	48
J	JJ	JJJ	38	48
K	KK	KKK	38	48
T	TT	-	38	48

#### 1-1 Measuring Junction

CODE	DESCRIPTION
G	Grounded junction
U	Ungrounded junction

#### 4-0 Sheath Terminations

CODE	DESCRIPTION
22 <sup>[1]</sup>	3" Individual fluoropolymer leads with terminal pins

[1] For longer leads, insert 2 digit length in inches. Example: 22(06)

#### 3-0 Element Style

CODE	DESCRIPTION
SL	Spring-loaded element
00	Supplied without spring

#### 2-0 Length

CODE
Insert 3 Digit "X" length in inches

### ORDER CODES

Configuration Code GP05

**RTD Example Order Number:**

1-0 1-1 1-2 2-0 3-0 4-0  
**R1T185L 48 3 - 012(1/2) - 00 - 22**

#### 1-0 100 $\Omega$ Platinum RTD Elements $\alpha = 0.00385\ ^\circ\text{C}^{-1}$

CODE		TOLERANCE <sup>[1]</sup>	TEMP. RANGE
SINGLE	DUPLEX		
R1T185L	R1T285L	Grade B	(-200 to 200) $^\circ\text{C}$
R5T185L	R5T285L	(1/5) Class B	(-30 to 150) $^\circ\text{C}$
RBF185L	RBF285L	Class B	(-50 to 200) $^\circ\text{C}$
RAF185L	RAF285L	Class A	(-30 to 200) $^\circ\text{C}$
R1T185H	R1T285H	Grade B	(-200 to 600) $^\circ\text{C}$
RAT185H	RAT285H	Class A	(-100 to 450) $^\circ\text{C}$

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

#### 1-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS
38	3/16
48	1/4

#### 4-0 Sheath Terminations

CODE	DESCRIPTION
22 <sup>[1]</sup>	3" Individual fluoropolymer leads with terminal pins

[1] For longer leads insert 2 digit length in inches. Example: 22(06)

#### 3-0 Element Style

CODE	DESCRIPTION
SL	Spring-loaded element
00	Supplied without spring

#### 2-0 Length

CODE
Insert 3 Digit "X" length in inches

#### 1-2 Element Connection

CODE	DESCRIPTION
2	2-wire element
3	3-wire element
4	4-wire element

