

TEMPERATURE SENSORS

UFV73 Series

Connector-Type RTD Temperature Sensor



MEASUREMENT RANGE	-200 to +850 °C
OUTPUT	Pt100 / Pt1000 resistance
WETTED MATERIAL	304 / 316 / 316L stainless-steel wetted parts
PROTECTION	IP65 / IP67 by configuration

PRODUCT OVERVIEW

The UFV73 Series is a compact, serviceable RTD assembly for temperature measurement in demanding machinery and pressurized equipment. Its vibration-resistant construction supports long-term stability in engines, compressors, industrial equipment, and marine applications. Pt100 and Pt1000 elements, Class A or Class B tolerances, multiple wiring and connector options, and configurable probe geometry allow the sensor to be matched to OEM and retrofit requirements.

KEY FEATURES

- Pt100 or Pt1000 sensing elements with DIN EN 60751 Class A or Class B tolerance options
- Vibration-resistant construction for engines, compressors, machinery, and marine equipment
- Two-wire standard configuration with alternative wiring available by application
- Multiple process connections, probe diameters, insertion lengths, and electrical terminations
- EMC shielding with surge, electrical-fast-transient, and radiated-RF immunity references
- IP65 or IP67 ingress protection, configuration dependent

TYPICAL APPLICATIONS

- Engines and compressors
- Industrial machinery and equipment
- Marine and shipbuilding systems
- Hydraulic and lubrication equipment
- Pressurized temperature-measurement points

TECHNICAL SPECIFICATIONS

Catalog values apply to the stated configuration. Final performance, materials, approvals, and connection details are confirmed on the quotation and controlled order documentation.

PARAMETER	SPECIFICATION
Sensing element	Pt100 or Pt1000 RTD
Measurement range	-200 to +850 °C
Tolerance options	Class B standard or Class A per DIN EN 60751
Output	Resistance (ohms)
Wetted materials	304, 316, or 316L stainless steel
Probe diameters	6, 8, 10, or 12 mm; custom options
Probe lengths	50, 100, or 150 mm standard examples; custom lengths available
Process connections	G3/8 A, M20 x 1.5, M14 x 1.5, G1, M16 x 1.5, G1/4, R1/2, or custom
Electrical connections	1 m flying leads, DIN 43650, Packard Metric Pack 150 3-pole, or M12 x 1 4-pin male
Surge immunity	±4,000 V, maximum 5 events (catalog value)
Electrical fast transient	Level 4
Radiated RF immunity	>10 V/m, 80 MHz to 1,000 MHz
Ambient temperature	-40 to +85 °C
Ingress protection	IP65 / IP67, connection dependent
Intrinsic-safety option	Design option referencing Ex ia II T6; certification must be confirmed for the ordered configuration

ORDERING INFORMATION

ORDER-CODE PATTERN

UFV73 [process] [electrical] - [element] [tolerance] - [range] [diameter] [length] [cable]

PROCESS CONNECTION

7 = G3/8 A, DIN 3852 | E = M20 x 1.5 | F = M14 x 1.5 | G = G1 | H = M16 x 1.5 | I = G1/4 | J = R1/2, DIN 3000 | O = Custom

ELECTRICAL CONNECTION

2 = Flying leads, 1 m cable | 3 = DIN 43650 | 4 = Packard Metric Pack 150, 3-pole | 8 = M12 x 1, 4-pin male

RTD ELEMENT

3 = 1 x Pt100 | 5 = 1 x Pt1000

TOLERANCE

3 = Class B standard | 4 = Class A

OPERATING RANGE

2 = 0 to +100 deg C | 3 = -25 to +100 deg C | 4 = -30 to +150 deg C | 6 = -40 to +125 deg C | 7 = -50 to +150 deg C | 1 = Custom

PROBE DIAMETER

6 = 6 mm | 8 = 8 mm | 0 = 10 mm | 2 = 12 mm | 1 = Custom

PROBE LENGTH

050 = 50 mm | 100 = 100 mm | 150 = 150 mm | L = Custom length

CABLE / CONNECTOR OPTION

002 = DIN plug, no cable | 022 = 2 m cable | 052 = 5 m cable

ORDERING NOTE

Please include the process medium, normal and maximum temperature, process connection, insertion length, electrical interface, required approvals, quantity, and installation constraints with the RFQ. CASCED US will validate the complete code before acceptance.