

TEMPERATURE TRANSMITTERS

UFV75 Series

Terminal-Head Temperature Transmitter



MEASUREMENT RANGE	-200 to +850 °C
OUTPUT	4-20 mA or RTD resistance
WETTED MATERIAL	304 / 316 / 316L stainless-steel wetted parts
PROTECTION	IP65

PRODUCT OVERVIEW

The UFV75 Series combines an industrial temperature probe, field connection head, and configurable transmitter module. It is intended for installations where a compact connector-style sensor is not suitable or where environmental exposure, service access, and longer insertion lengths require a traditional terminal-head assembly. The smart module supports DIP-switch range configuration and PC programming, with configurable fault signaling for sensor break or short circuit.

KEY FEATURES

- Pt100, Pt1000, Cu50, and thermocouple input options
- Two-wire 4-20 mA transmitter module with configurable measurement span
- DIP-switch setup with PC-programming capability
- Preset sensor-break and short-circuit fault signaling
- Rugged connection head for contaminated or mechanically demanding environments
- Multiple probe diameters, insertion lengths, process connections, and flange options

TYPICAL APPLICATIONS

- Industrial process temperature measurement
- Chemical processing equipment
- Hydraulic and lubrication systems
- Machinery and plant equipment
- Long-insertion and flange-mounted temperature 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
Sensor inputs	Pt100, Pt1000, Cu50, or thermocouple, configuration dependent
Measurement range	-200 to +850 °C
Analog output	4-20 mA, two-wire
Alternative output	RTD resistance output
Transmitter accuracy	≤0.2% (catalog value)
Programming	DIP-switch span setting and PC programming
Fault functions	Configurable sensor-break and short-circuit signal
Wetted materials	304, 316, or 316L stainless steel
Probe diameters	6, 8, 10, or 12 mm; custom options
Insertion length	60 or 150 mm standard examples; 30 to 1,000 mm selectable
Process connections	G1/2-B, G1/4-A, G3/8-A, R1/4, M20 x 1.5, 42 mm flange, or custom
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
Intrinsic-safety option	Design option referencing Ex ia II T6; certification must be confirmed for the ordered configuration

ORDERING INFORMATION

ORDER-CODE PATTERN

UFV75 [process] [wiring] - [output] - [range] [diameter] - [length] - [approval]

PROCESS CONNECTION

3 = G1/2-B | 6 = G1/4-A | 7 = G3/8-A | 8 = R1/4 | C = M20 x 1.5 | S = 42 mm flange | O = Custom

ELECTRICAL EXIT

1 = Terminal-head wiring | 2 = Direct cable exit

OUTPUT

C = 4-20 mA | Q = Resistance output

OPERATING RANGE

O = Custom range within -200 to +850 deg C

PROBE DIAMETER

06 = 6 mm | 08 = 8 mm | 10 = 10 mm | 12 = 12 mm | Q = Custom

INSERTION LENGTH

60 = 60 mm | 150 = 150 mm | L = 30 to 1,000 mm selectable

APPROVAL OPTION

Blank = Standard | E = Explosion-protection option; certification to be confirmed

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.