

IN HEAD TEMPERATURE TRANSMITTER UPLINK 100



The UP100 is a cost effective “smart” transmitter that accepts resistance signals including RTD sensors and converts them to a standard industrial (4 to 20) mA transmission signal over a programmed range.

In head transmitters can be applied in all areas of process automation. They make sure that the transmitted process temperature is both accurate and secure. It also means that the sensitive sensor cables no longer need to be connected to the control system.



TECHNICAL CHARACTERISTICS

Sensor Connection: 2 or 3 wire Screw terminal
Minimum span: 25 °C
Thermal Drift: 25 ppm / °C
Excitation current: <200 uA
Lead Resistance effect: 0.002 °C / Ohms
Maximum lead Resistance: 20 Ohms per leg

OUTPUT

Output Type: 2 wire 4 to 20 mA current loop
Output range: (4.0 to 20.0) mA
Output Connection: Screw Terminal
Output Limits: 3.8 to 21.5 mA
Accuracy:(mA output /2000) or 5 uA (Whichever is the greater)

Loop Voltage effect: 0.2 uA / V
Thermal drift: 1 uA / °C
Maximum output load: (Vsupply-10)/20] K Ohms
 (Example: 700 Ohms @ 24V)

GENERAL SPECIFICATION

Update time: 300mS
Response Time: 400mS
Start up time: 4 seconds (I out < 4 mA during start up)
Warm-up time: 1 minutes to full accuracy
Power Supply: (8 to 30) Volts dc

PHYSICAL

Dimensions: 43 mm diameter; 21mm height
Weight: 31 g (encapsulated)

ENVIRONMENTAL

Ambient operating range: (-40 to +85) °C
Ambient storage temperature: (-50 to +90) °C
Ambient humidity range: 10 to 90% RH non condensing

APPROVALS

EMC - BS EN 61326

Electrical equipment for measurement control and laboratory use.

ANNEX A

Immunity test requirements for equipment intended for use in industrial locations

ANNEX F

Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning.

IEC 61000-4-2

Electrostatic discharge

IEC 61000-4-3

EM Field

IEC 61000-4-4

Transient Burst (output)

IEC 61000-4-5

Surge (output)

Note - Sensor input wires to be less than 3 metres to comply.

Construction acc. to ATEX 94/9/EC (on request)

Ex approval:

KEMA 10ATEX0003 X..... II 3 GD Ex nA [nL] IIC
 T4...T6 or
 II 3 GD Ex nL IIC
 T4...T6 or
 II 3 GD Ex nA [ic] IIC
 T4...T6 or
 II 3 GD Ex ic IIC
 T4...T6

OPTIONS AND ACCESSORIES

- Fitted inside a RDT terminal head
- IS Version

HOW TO ORDER

Please specify: model, range, options if any
Example : UP100, -50 to 250 Deg C

