# In Head Temperature Transmitter
# Uplink 100

"Quality Matters"


## Introduction
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.

## Specifications
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
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

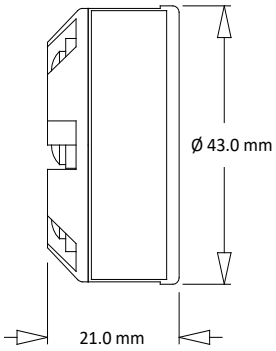
## Physical
Dimensions: 43 mm diameter; 21mm height
Weight: 31 g (encapsulated)

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

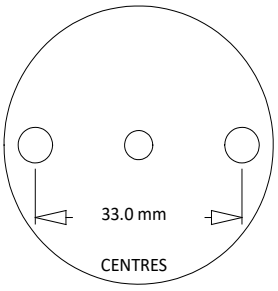
## Approvals
EMC - BS EN 61326 Electrical equipment for measurement control and laboratory use.
ANNEX A Immunity test requirements for equipment intended for use in industrial locations
ANNEX F Test configurations, operational conditions and performance criteria for transducers with integrated or remote 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.

## How to order
Please specify: model, programmed range
Example : UP100, 0/100 Deg C

SIDE VIEW




BASE VIEW




Fixing holes 2 x Ø5.5 mm
Centre hole Ø4.0 mm



Web: www.pci-instruments.com | Email: sales@pci-instruments.com | Tel: +44 (0)1704 509090