

HBS6000

Temperature Sensor and Transmitter

Temperature Transmitters



The HBS6000 is an all-in-one RTD Pt100 temperature sensor with an integrated 4 to 20mA temperature transmitter. The assembly is housed in a 316 stainless steel body and is supplied with a DIN connector for ease of wiring.

The HBS6000 is configured via USB by simply connecting two clips to the loop terminals and following the easy to use software instructions. The software allows the user to setup the temperature range, units and burnout direction, without the need for calibration equipment.

The HBS6000 is available with a number of different process connections including parallel and taper threads, hygienic connections and duct plates. The HBS6000 can be ordered with a maximum immersion length of up to 2000mm.

Specification

Sensor Type	Pt100 Class A
Operating Range	-20°C to +250°C
Minimum Span	25°C
Protection Degree	IP65
Linearisation	BS EN 60751 (IEC751)
Accuracy	0.2 °c ± 0.05 % Reading Plus Sensor Error
Thermal Drift	0.0025 % / °C
Excitation Current	< 200 uA
Output Type	2 Wire Current Loop
Output Range	4 to 20 mA
Connection	Din Connector Screw Terminal
Maximum Output	21.5 mA in High Upscale Burnout Condition
Minimum Output	3.9 mA in Low Downscale Burnout Condition
Maximum Output Load	[(Vsupply-10)/21] k ohms Eg 700 ohms @ 24 V DC
Update Time	500 ms
Response Time	1 Second + Sensor Lag
Start up Time	4 Seconds (Output < 4 mA During Start Up)
Warm up Time	60 Seconds To Full Accuracy
Power Supply	10 to 30 V DC
EMC Approval	BS EN 61326