



vibro-meter

TEMPERATURE MEASUREMENT SYSTEMS

Platinum resistance thermometer

Types: two, three or four wire systems

Element: Ceramic substrate
PT 100 or 200

Sheaths: Aluminium,
stainless steel

Radiation pyrometers

Types: Infrared, two channel

Accuracy: 0.4% at +1000°C

Environments: MIL-STD- 810
Patented purge system
Nuclear hard
Lens temp +600°C
Fibre optic temp +350°C
Electronics +125°C

Thermocouples

Types: Bare wire
Mineral insulated
• swaged tip
• submerged junction
• exposed junction

Element: K Type to BS EN60584.1Pt.4 1996

Sheaths: Stainless steel, Inconel 600,
Hastelloy® Alloy X

Vibro-Meter UK has been producing temperature measuring devices for over 60 years. Our temperature sensing products are specified by numerous gas turbine manufacturers as the prime measurement source. Accurate measurement is available throughout the gas flow path of engines encompassing temperatures from -54°C to +1200°C.

Other applications include bearing measurement of helicopter gearboxes and diesel engine temperature monitoring.



Typical temperature measurement in gas turbine engines

Typical temperature monitoring applications

Gas turbines

- All stages from air inlet to exhaust gas temperature
- Bleed air temperature measurement

Gearboxes

- Direct bearing measurement

Fluids

- Fuel systems
- Oils
- Water

A sample of customers who have chosen Vibro-Meter UK temperature sensing products

- Rolls-Royce
- Honeywell
- Rolls-Royce Deutschland
- TRW
- Boeing
- Dowty Propellers
- Turbomeca
- GHH Borsig
- Microturbo
- Agusta
- MTU



Radiation pyrometer fitted to EJ200 gas turbine

