



Temperature & Pressure Gauges

“Rototherm is proud of its pressure gauge heritage, it designed and built the first ever steam gauge back in 1847. We invented the bi-metallic thermometer in 1924 and continue to build on this culture of innovation”

Talk to the experts...

- Great heritage in pressure and temperature gauges
- Wide variety of ranges, materials, sizes, connections, etc.
- Pressure gauges available to NACE standard MR-0175 for corrosive environments
- Temperature gauges available with Thermowells suitable to your process requirements
- Gauges available to Defence Standards, manufactured according to NATO Stock Numbers (NSN)
- Accurate, reliable and durable gauges for all types of industries and applications

Industries:

- Defence
- HVAC
- Food & beverage
- Oil & gas/Offshore
- Chemical/petrochemical
- Hydraulics & pneumatics
- Medical
- Pumps & compressors
- Water & Wastewater
- Paper mills
- Agriculture plants
- Power generation
- Injection Molding Machines
- Automotive

Applications:

Temperature & Pressure monitoring for all processes, commercial and industrial applications including:

- Generators & Transformers & Engines
- Pumps & Compressors & Turbines
- Pipeline systems
- Exhaust gas systems
- Distillation columns
- Steam drums
- Extraction vessels
- Tank farms
- Surfaces
- Chemical distillation
- Hygienic processes
- Leak detection

Defence Standard Gauges

Defence Standard Gauge

SPGA

- Nominal Size: 63 - 300mm
- Def Stan 66.2 Issue 4
- Low range capsule pressure
- Class 1 Accuracy to EN837 (63mm dial Class 1.6)
- Simple installation and low maintenance
- Scale Range: -1 to 600 bar; 30”Hg VAC to 10,000 psi
- Full Safety Pattern Gauge
- Painted in Admiralty Grey to BS381C
- Manufactured to NSN specification



Process Gauges

Process Gauge (SS)

RPG, RCG (Stainless Steel)



- Nominal Size: 63 - 150mm
- Adjustable micrometer pointer as standard (not 63mm)
- Liquid fillable
- Low range capsule pressure
- Class 1 Accuracy to EN837
- Scale Range: -1 to 600 bar; 30”Hg VAC to 10,000 psi

Safety Pattern (Al)

SPGA (Aluminium Case)



- Nominal Size: 63 - 300mm
- Low range capsule pressure
- Class 1 Accuracy to EN837 (63mm dial Class 1.6)
- Simple installation and low maintenance
- Scale Range: -1 to 600 bar; 30”Hg VAC to 10,000 psi
- Solid front / Blow-out back

Safety Pattern (SS)

SPG (Full Stainless Steel)



- Nominal size 100-150mm
- Stainless Steel full safety pattern
- Class 1 accuracy to EN837
- Low range capsule pressure
- Scale range: -1 to 1000 bar
- Available with stainless steel or monel wetted parts
- Solid front / Blow-out back
- Liquid fillable

Digital Pressure Gauges

Digital Pressure Gauge

DG1

- Nominal Size: 100mm
- High Accuracy $\pm 0.2\%$ full scale
- Stainless steel IP67 case
- Long battery life – 1 year continuous operation from 2AA batteries
- Wide selection of pressure ranges from vacuum to 400 bar
- 4 to 20mA output option available
- Intrinsically safe versions available
- Supplied with calibration certificate traceable to National Standards
- Available with MAX and MIN pressure readings
- Transmitter version available (DG1-TX)

Certified Digital Pressure Gauge

DG1 - I.S.

- Approved to EEx ia IIC T4 (-20°C < Ta < 60°C) certification
- Covered by ATEX certificate BAS99 ATEX 1004X



Differential Pressure Gauges

Light Duty DP Gauge

200DPG, 200DGR, 300DGC, 400DGC, 600DGC

- Nominal Size: 50 - 150mm
- Suitable Steel case
- Scale Range: 0 to 600 mm H₂O: 0 to 10 bar
- Accuracy class $\pm 2.0\%$ FSD
- Maximum static pressure: up to 200 bar
- Switching option
- Various materials for wetted parts
- Multiple process connections



Heavy Duty DP Gauge

DP360, DP370, DP362

- Nominal Size: 100mm & 150mm
- Full safety pattern option to EN837 – solid front and blow-out back
- Accuracy class $\pm 1.6\%$ FSD ($\pm 1.0\%$ option)
- Scale Range: 0 to 160mbar; 0 to 25 bar
- Switching options
- Wetted parts in Stainless Steel or Monel
- Multiple process connections



Accessories

Accessories

Manifolds, Over-Range Protectors & Pulsation Dampers



- Pulsation Dampeners (Snubbers)
- Syphons – “Pigtail” and “U” pattern
- Over Range Gauge Protectors
- 2VG Series In-Line 2 Valve Manifold
- 2VR Series Remote Mounting 2 Valve Manifold
- AM413 3 Valve Manifold
- AM415 5 Valve Manifold

Diaphragm Seal Units

DSU



- Available with a wide choice of threaded or flanged process connections
- Wide choice of materials including Stainless Steel, Hastelloy, Inconel, Monel.
- Wide choice of additional protective coatings
- Welded or bolted constructions
- Suitable for wide range of process medium and conditions

Pressure Transmitter

PTx



- Stainless steel construction
- Pressure Range: -1 to 400
- DIN43650 plug for easy installation
- Choice of process connections
- Ingress protection: IP67

Filled System Thermometers

Stem Thermometer

NR1 & NR2



- Nominal size: 100mm & 160mm
- Stainless steel case (316 option)
- Available with rigid stem
- Non Toxic filling
- Scale range -30...+70 to 0 to 650°C
- Available with a wide range of thermowells
- Housed in a gasket sealed diecast aluminium case with adjustable zero

Capillary Thermometer

NC2



- Nominal size: 100mm & 160mm
- Stainless steel case (316 option)
- All stainless steel construction
- Back or bottom entry versions
- Capillary type
- Non Toxic filling
- Scale range -30...+70 to 0 to 650°C
- Available with a wide range of thermowells

Bi-metallic Thermometers

Light Duty Bi-metallic Thermometers

BL1



- Nominal size: 50mm & 63mm
- All stainless steel construction
- Scale range -30...+60 to 0 to 400°C
- Wide range of temperature ranges available
- Models available with thermowells suitable for pipelines
- Models available for use on ovens, sterilizers, cabinets

Surface Temperature Thermometers

BL3



- Nominal size: 63mm
- Spring fixing suitable for mounting to pipes (Model BL301)
- Magnetic fixing suitable for mounting to horizontal or vertical surfaces
- Stainless steel case and bezel
- Scale range -30...+60 to 0 to 400°C

Heavy Duty Fixed Stem Thermometers

BH2



- Nominal size: 63mm, 100mm & 160mm
- Stainless steel construction – case and stem
- Scale range -70...+70 to 0 to 600°C
- External zero adjustment
- No contaminants – safe for food and chemical applications
- Can be supplied with a wide range of Rototherm thermowells
- Can be fitted with electrical contact heads (100mm & 160mm sizes only)
- Available with maximum or minimum value and index pointers

Heavy Duty Any Angle Thermometers

BH3



- Nominal size: 100mm, 130mm & 160 mm
- Stainless steel construction
- Scale range -70...+70 to 0 to 600°C
- External zero adjustment Silicone filling available
- No contaminants – safe for food and chemical applications
- Can be supplied with a wide range of Rototherm thermowells

Digital Thermometers

The DigiTemp range of digital thermometers employ micro processors enabling extremely low power consumption to be achieved, thus offering extended battery life. Available with either thermocouple or RTD PT1000 sensors, DigiTemp is offered in both rigid stem and remote reading versions.

Digital Thermometers

DT1 & DT2

- Thermocouple Sensor (DT1) or RTD (DT2)
- Direct reading rigid stem or remote reading capillary versions available
- Choice of cable materials and protections
- 4 to 20mA retransmission option MAX/MIN reading options
- 2 years continuous operation from 2 x AA cells

ATEX Digital Thermometer

DT-IS

- Suitable for hazardous areas (ATEX approved)
- RTD or Thermocouple Sensor
- Direct reading rigid stem or remote reading capillary versions available
- Choice of cable materials and protections
- 2 years continuous operation from 2 x AA cells

