

STAR

INSTRUMENTS

Leading UK Manufacturer & Stockist of High Quality Instrumentation



We Design & Manufacture to Customers Unique Requirements

Full Range of Calibration and Repair Services Available



www.star-instruments.co.uk

Proud Agents for



Examples of our Range of Products

Temperature

Gas Expansion Thermometers

Robust heavy-duty thermometers for marine, industrial and heating industries. Dial sizes from 100mm up to 300mm in direct and remote reading types. Suitable for temperature ranges between -40 to 700 °C.



All Stainless Steel Bi-metal Thermometers

80, 100 or 150mm dia in vertical, axial and every angle styles. Widely used in process and offshore oil industries.



Bimetal Thermometers

63, 100 or 150mm dia in vertical and axial styles. Black and chrome specification for HVAC industry. Extensive selection in stock.



SIKA Thermometers

Simple yet robust design providing reliable, low cost indication of temperature. Wide range of styles, temperature ranges, immersion lengths and materials available from our stock.



Vapour Pressure Thermometers

A robust and economical range for heating, ventilating and general industrial use. Dial sizes from 63mm to 300mm in direct and remote reading types and in square cases.



Tempstar Hand-held Digital Thermometers

Low cost, compact, convenient for H&V and refrigeration use. Selection of °C or °F, time and hi/lo alarms. Ranges -50+300°C



Hand-held Infrared Thermometers

Temperature measurement of dangerous matter (e.g. electrically live parts, chemically aggressive materials) and in locations difficult to access.



SIKA SolarTemp Digital Thermometer

For marine applications, 170x150mm with steel blue coated case & aluminium mounting plate. Digital display suitable for sensor elements Pt1000. Measuring range of 0-650°C. Optional transmitter output. Solar cell power supply. IP65



Electronic

Digital Electronic Controllers

SIKA range of electronic indicator/controllers for temperature, pressure and analogue signals. PID, 2-point and 3-point control modes with up to 5 output relays.



SIKA TS31000

Multi-point temperature indicator with manual selection via opto-switches. 16 or 32 thermocouple inputs (programmable). High contrast LED and 2-line alpha-numeric LCD.



SIKA Digital Pressure Gauges

A range of digital reference pressure gauges including bargraph displays and backlighting options. Accuracies from +/-0.5% to +/-0.01%fs and ranges from vacuum to 2500 bar. Easily used and read.



Pressure Sensors

A wide range of measuring principles and connection variants for all applications where pressure has to be converted to an electrical signal.



Hand-held Instruments for Temperature Humidity and Pressure

Handy and reliable instruments for simple measurements and for special applications. High performance sensors and a multi-function display enable this range to be used for extensive measurement jobs.



Temperature Sensors

Resistance thermometers and thermocouples with an extensive range of protecting tubes having application possibilities for all industries.



Air Movement

Filterstar Differential Pressure Gauges

A range of low-pressure differential gauges for air and non-corrosive gases to indicate filter condition in clean rooms, dust extraction plant and for connection to pitot tubes etc.



Water-in-Oil

PAJ Water in Oil sensor

Water or moisture is one of the major contaminants of oil leading to major damage to machinery and the oil. This WIO sensor provides industry leading quality and accuracy levels with 24/7 monitoring. Robust and GL approved giving early warning of high levels of water content.



Pressure

Bourdon Tube Pressure Gauges

Heavy duty gauges for vacuum and pressure measurement. Class 1 accuracy ($\pm 1\%$ fsd). Case sizes from 63 to 300mm dia. Direct, surface or flush mounting styles available. Ranges from full vacuum to 1000 bar.



Differential Pressure Gauges

100 and 150mm dia cased instruments using opposed bourdon tubes in brass/bronze or stainless steel. Dials can be marked in units of flow etc.



Low Pressure/Vacuum Capsule Gauges

Available with brass/beryllium copper or 316 stainless steel wetted materials. Case sizes from 63 to 300mm dia. Pressure/vacuum ranges from 10 to 1000mbar.



Liquid Filled Pressure Gauges

Robustly constructed with a liquid filled case for use where vibration, condensation and pulsation are present. 63 and 100mm dia cases with a choice of brass/bronze or 316 stainless steel wetted parts. Many ranges from full vacuum to 1000 bar held in stock.



Safety Pattern Gauges

S1, S2 and S3 safety pattern pressure gauges comply with the requirements of EN 837-1 for use on high-pressure gases. Available in oilfree construction for oxygen duty. Ranges from full vacuum to 1000 bar.



Master Test Pressure Gauges

Accurate to $\pm 0.25\%$ fsd in sizes from 150 to 300mm dia in a variety of mounting styles.



Stainless Steel Pressure Gauges

316 stainless steel wetted parts and 304 stainless steel case for process industry applications. Case sizes 63, 100, and 150mm dia. Option of liquid filled case. Ranges from full vacuum to 1000 bar.



Refrigeration Gauges

Gauges specifically designed for use with refrigerant gases in dry or liquid filled cases. Dials marked to show pressure and temperature equivalents for a wide range of gases. Stainless steel wetted parts are available for ammonia.



Sprinkler Gauges

Accuracy class 1 gauges for use in sprinkler systems. Comply with LPC rules and EN 837-1. Available with leak-proof connectors as an option.



Square Gauges

72, 96 and 144mm square cases for many of the temperature and pressure instruments in our range.



Absolute Pressure Gauges

100mm dia barometrically compensated absolute pressure gauges with the option of overpressure protection. Ranges 0-20, 40, 100 and 760 torr



Workshop Test Pressure Gauges

A range of $\pm 0.6\%$ fsd accuracy test gauges for implementing quality standards and for general comparison testing of industrial pressure instruments. Can be supplied with carry cases and calibration certification.



Accessories

Pressure Gauge Cocks and Isolation Valves

Gauge cocks in many sizes and materials with pressure ratings up to 25 bar. Gauge valves with vent screw in 1/4", 3/8" and 1/2" BSP (NPT also available) rated up to 400 bar at 120°C.



Syphons

A wide range of 'U' and ring syphons in brass, steel and stainless steel.



Snubbers

Used to protect pressure instruments from the harmful effects of pressure pulsation; these are externally adjustable and available in a range of thread sizes and materials.



Over-pressure Protection Valves

Adjustable over-pressure protection valves protect pressure instruments when the load exceeds their full scale. Brass and stainless steel versions in 1/2" BSP and NPT.



Electric Contacts

Single or double, standard or magnetically assisted electrical contacts can be incorporated into many of our pressure and temperature instruments.



Diaphragm Seals

Extensively used to prevent aggressive, contaminated or crystallising media from entering pressure measuring instruments. Many threaded and flanged process connections available including hygienic types.



Flow/Level

Flow Switches

SIKA simple, reliable flow switches offer a low cost option based on reed switch actuation. Brass, plastic and stainless steel construction options



Paddle Flow Switches

SIKA micro-switch actuated for higher electrical ratings. Suitable for pipe sizes between 40 and 200mm bore



Turbotron Flow Sensors

SIKA axial turbine flow sensors for liquids in plastic, brass or stainless steel. Can be fitted with local transducers, switches or indicators. Suitable for 15, 25 and 40mm bore sizes.



VTR Flow Sensors

SIKA axial turbine flow sensors in stainless steel to suit pipe sizes from 10mm to 300mm bore. Different types of pick-up available; including EEx.



Sika induQ

With no moving parts and no wear this trio of compact, low cost magnetic inductive flow sensors bring reliable flow measurement to processes where it was previously not considered possible.



Positive Displacement Flow Sensors

SIKA positive displacement flow sensors are high precision transducers for measuring the volume flow of high viscosity or changing viscosity media.



Sika Vortex

Precise flow measurement based on vortex shedding. Solid state sensor with no moving parts. Compact and rugged with integral temperature sensor. Completely encapsulated Piezo-ceramic sensor to detect vortices. Sizes DN15 and DN25 with analogue or pulse type outputs.



Level Switches

SIKA reed switch actuated level switches in a variety of materials and connection sizes



Calibration

Temperature Calibrators

Portable dry-block temperature calibrators for laboratory, on-site and marine duty. Wide range of accuracies available with temperature ranges selectable between -30 and +1300°C



Portable Pressure Test Pumps

Specifically for on-site testing of pressure gauges, sensors and switches. Range -0.4 to 400 bar. Test gauge to be specified separately.



Pressure Calibrator

Pneumatic and hydraulic hand operated pressure calibrators for pressures up to 1000 bar. Analogue or digital reference gauges are available offering accuracies up to +/-0.01% fsd.



Simulator

Universal pocket and multi-function Simulators. Digital, menu-driven Instruments providing a wealth of signals including most thermocouple and resistance thermometer types.



Tank Contents

Alti-level Tank Contents Gauges

Suitable for direct mounting and continuous monitoring of tank contents. Brass/bronze or stainless steel wetted materials ensure their suitability for a wide variety of liquids. 63 and 100mm dial sizes for flush or surface mounting



Remote Reading Tank Contents Gauges

An integral hand-pump and connection tubing make these gauges suitable for remote mounting up to 18m distant from the tank. Suitable for spot-checking tank contents in less accessible locations.



Engine Management

Exhaust Gas Pyrometers

Specifically designed for the extreme conditions met on diesel engines. Silicone oil filled to overcome the effects of vibration, to lubricate and ensure long service life.



Premet Electronic Indicators

The new LEMAG PREMET C is a state of the art technology electronic cylinder pressure indicator. All measured data can be evaluated immediately on the high resolution colour display, including all the curves and diagrams previously only known from computer based evaluation software



Peak Pressure Indicators

Lemag LS peak pressure indicators for measurement of maximum firing pressure of internal combustion engines. Robust, precise and reliable.



Indicator Valves

Franz Schneider's unique spring loaded spindle to ensure valve operation under severe conditions of high temperature and vibration. Wide range of indicator and engine connections.



Process Instrumentation

Monoflange

AS-Schneider Monoflanges are designed to replace conventional multiple-valve installations in use on pressure measuring systems. By combining specified valves into a single manifold, leak paths and system mass are lowered, reducing stresses from loading and vibration.



Manifold

AS-Schneider Manifolds are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard vent connection is 1/4 NPT female. Pipe plugs are not installed as standard.





Synonymous with high quality precision,
Star Instruments Ltd. has held and maintained
the ISO 9001 quality management accreditation since 1989

Our dedicated production team work with many OEM's
and can design and manufacture products to meet
your unique specifications



Same day dispatch on current stock items
Customers can order by phone, fax or email
Telesales operate Mon - Fri 9am to 5pm

Our sales team cover UK and Ireland
Call today to arrange a visit or to discuss you individual needs



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