



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment

Flow & process measurement solutions

Flow

Temperature

Pressure

Level

Density

Rate

Totalising

Batching

Control



UK Flowtechnik is a joint venture company between UK Flow Ltd (formerly the UK distribution arm of the E-Holdings group of companies) and Flowtechnik (formerly the process flow metering division of Hydrotechnik UK Ltd).

UK Flowtechnik Ltd has been formed to build on the success of both companies in the manufacture and supply of flow meters, instrumentation, process sensors, specialist pumps, magnetic couplings and high quality hydraulic components.

UK Flowtechnik Ltd offers products from quality brands such as VSE, Beinlich, DST, HBE, Flomec, GPI, Lake Monitors, Seametrics, Elis Plzen, Bopp & Reuther and Comeco as well as many others and we also offer a competitive Calibration & Repair service.



UK Flowtechnik

Specialists in flow metering, pumps, couplings and process measurement equipment

We work closely with our customers from the initial inquiry stage onwards and can provide innovative solutions for the most challenging of applications or for the most demanding of budgets using our huge portfolio of products.



We specialise in flow meters for Subsea applications, flow meters for dispensing additives, adhesives, sealants and viscous chemicals at both high and low pressures. We are innovators in providing high performance metering, measurement and instrumentation solutions for flow, temperature, level, density, rate, totalising, batching and control.

We distribute the following:

HBE hydraulic components

VSE flow measurement

DST magnetic couplings

GPI

beinlich pump systems

FLAMEC

ELIS

COMECO CONTROL & MEASUREMENT

BOPP & REUTHER MESSTECHNIK

LAKE MONITORS

Seametrics

HYDROTECHNIK UK LIMITED

Circular Gear & Helical Screw Flow meters

Manufactured to exacting standards for performance and accuracy that's unmatched. Whether it's a low viscosity oil or a thick resin, these positive displacement meters are the ultimate solution for precision flow measurement. With thousands of possible options for size, bearings, tolerances, materials, coatings, electronics, resolution & ATEX, there will be an option to suit even the most demanding of applications.



Performance data

Flow rates from: 2 mL/min (lower dependent on viscosity) to 3,000 L/min
Pressures up to 1000 Bar
Viscosity range 0.8 to 1,000,000 cSt
Dual signal, ATEX, Heated, High resolution



Common application fluids

Hydraulics
Foam - Isocyanates / Polyol
2K Epoxy / Hot melt / Glues
Ink / Paint (including electrostatically charged)
Fuel flow measurement



Markets & areas of application

Vehicle & aerospace test rigs
Single & multi component metering systems
Foam production
Transfer & dosing equipment
Pharmaceutical & cosmetic production



Advantages

Up to 1000:1 measuring span possible per meter
High accuracy
Large viscosity ranges possible



Oval Gear Positive Displacement Flow meters

Oval gear meters are an affordable, dependable and rugged flow measurement solution that compensates for fluid viscosity changes. Ideal for fuels, hydraulic or lubricating oils, they offer a wide choice of materials, sizes and options to meet even the most demanding applications. When coupled with the FRT or FBT locally mounted displays, operation can be made without the need for power, even in hazardous areas.



Performance data

- Flow rates from: 8 mL/min (lower dependent on viscosity) to 2500 L/min
- Pressures up to 400 Bar
- Viscosity range 0.8 to 1,000,000 cSt
- Hall & reed switch output, ATEX, quadrature, high temperature



Common application fluids

- Hydraulic oil
- Lubricating oil
- Fuels
- Grease
- Solvents



Markets & Areas of application

- Lubrication monitoring to gear boxes
- Fuel & oil dispensing and totalising
- Hydraulic test stands
- Engine consumption monitoring
- Pharmaceutical & cosmetic production



Advantages

- Low pressure drop
- High accuracy
- Large viscosity ranges possible



Performance data

- Flow rates from: 25 mL/min to 1000 L/min (liquids), 1.5-2184Nm³/hr (gases)
- Pressures up to 414 Bar
- Viscosity range 1 to 105 cSt
- Switches, analogue O/P, high temp, chemically resistant



Common application fluids

- Hydraulic oil (including Phosphate Esters)
- Lubricating oil
- Water
- Acids & bases
- Gases



Markets & Areas of application

- Hydraulic oil flow monitoring
- Dosing of acids & bases
- Air & nitrogen usage
- Water flow rate testing
- Cooling water & lubrication monitoring



Advantages

- Economical flow rate measuring solution
- Wide range of material options for different media measurement



Variable Area Flow meters

Simple, reliable and easy to use, a comprehensive range of traditional conical tube and spring loaded viscosity compensated flow meters for a wide range of media. Whether it's air or gas, acid & bases for water treatment or high pressure hydraulic oil at 414 Bar, VA meters provide easy to read economic flow monitoring at an affordable price.



Pelton Wheel Flow meters

For the measurement of low viscosity (water-like liquids), Pelton wheel meters perform well in dosing and batching applications and are ideal for pipes from 1/4" to 3" with pipeline fittings and up to 100" using the insertion style. They give a frequency output which is proportional to flow rate and can be converted to analogue signals or displayed. Options include battery powered systems so external power is not necessary.



Performance data

- Flow rates from: 250 mL/min to 378,000 L/min
- Pressures up to 35 Bar
- In-line & insertion types for water-like liquids
- Pulse & analogue O/P, chemically resistant, very large pipes



Common application fluids

- Water
- Acids & bases
- Coolant



Markets & Areas of application

- Cooling water monitoring
- Dosing of acids & bases
- Water flow rate testing



Advantages

- Economical flow rate measurement
- High flow measurement and large pipeline fitting options



Axial Turbine Flow meters

Manufactured from nylon to the highest grades of stainless steel, axial turbines contain no seals and are ideal for light or heavy duty applications. From water flows to high pressure hydraulics, hygienic food or pharmaceutical versions to hazardous area and subsea, these rugged and reliable flow meters are a popular choice in many industrial applications.



Performance data

Flow rates from: 0.03 L/min to 120,000 L/min Pressures up to 4000 Bar
BSP, NPT, Flanged, Hygienic, Autoclave & Nova Swiss connections
Pulse & analogue O/P, ATEX, Subsea (down to 4000mH₂O), special materials



Common application fluids

Water
Hydraulic oil
Solvents
Coolant
Subsea hydraulic fluid



Markets & Areas of application

Hydraulic oil flow measurement at high pressure
Water cooling flows
Dosing and batching
Subsea hydraulics (valves & ROV)
Subsea additive injection



Advantages

Wide range of design options for different media
Economical or high specification options to suit all budgets



Performance data

Flow rates from: 76 L/min to 40,000 m³/hr
1/4" to 48" pipe sizes
BSP, NPT, flanged and hygienic connections
Display, pulse & analogue, chemically resistant, hygienic



Common application fluids

Water
Acids & bases
Effluent
Slurries and polluted media
Milk & food stuffs



Markets & Areas of application

Water & waste treatment
Cooling plants
Dosing and batching
Water test rigs
Food and pharmaceutical



Advantages

No moving parts
Accurate measurement of polluted liquids



Magnetic Inductive Flow meters

Containing no moving parts, magnetic inductive flow meters are ideal for polluted liquids or slurries. The straight through design also gives very accurate flow measurement over a wide span for many applications. If the liquid is conductive then this flow meter will measure it accurately. A wide choice of flow meter liners make this a popular choice in many process industries such as water treatment & foodstuff dosing or filling.



Clamp-on Ultrasonic Flow meters

With the ability to be placed on the outside of the pipe, clamp-on ultrasonic flow meter kits offer the ability to measure flows without having to break into the pipe line. This makes them ideal for extremely large pipes or to conduct non-intrusive surveys of existing pipe work to determine optimum flow and pump settings.



Performance data

Flow rates from: 0.12-12 m/s
1" to 48" pipe sizes
Magnetic, chain or band clamp
Flow rate, total, 4-20 mA output, data logging, hand held or fixed installation



Common application fluids

Water
Acids & bases
Fuels
Propane/Butane
Oils



Markets & Areas of application

Water & waste treatment
Cooling plants
Dosing and batching
Water test rigs
Food and pharmaceutical



Advantages

Non-intrusive
Time & cost saving portable flow measurement



Coriolis Flow meters

Coriolis meters are widely used for accuracy and performance, as mass flow measurement and density outputs provide all the variables for true flow measurement. With no moving parts, linearity of $\pm 0.05\%$ of reading and rugged cavity free design, Coriolis flow meters are unmatched by any other design.



Performance data

Flow rates from: 0.4-2,500 m³/hr (Liquid),
2-20,000 m³/hr gas or steam)
 $\frac{1}{2}$ " to 14" flanged or wafer style connections
Temperatures up to 450°C
ATEX, display, pulse and analogue (HART)



Common application fluids

Steam
Water
Air
Gases
Coolant



Markets & Areas of application

Steam generation and distribution
High temperature liquids
Air distribution
Water test rigs
Large diameter pipes (non-conductive fluids)



Advantages

Extremely robust construction with no moving parts
Same unit for gas, steam or liquids
High media temperatures up to 450°C



Performance data

Flow rates from: 3-3000 kg/hr
 $\frac{1}{2}$ " to 2" pipe sizes
Temperature up to 150°C
Pressures up to 350 Bar
ATEX, display, pulse and analogue (HART)



Common application fluids

Virtually any liquid
Water
Polyurethanes
Paint



Markets & Areas of application

Mass Flow measurement
Density measurement
Dosing and batching
Polluted or high purity liquids



Advantages

Accurate mass flow measurement
Measures difficult to meter contaminated liquids

Vortex Flow meters

The Vortex principle is one of the few metering methods that allows air, steam and liquids to be measured by the same flow meter. The rugged design with no moving parts and the ability to measure fluids with temperatures of up to 450°C, make Vortex flow meters truly versatile. Known as the standard choice for steam measurement, they also suit larger diameter applications for air/gas and especially non-conductive liquids.



Instrumentation, Software & Systems

To compliment our comprehensive range of flow meters, density, level, temperature and pressure transducers we offer a full suite of secondary instrumentation such as frequency to analogue converters, displays, batch controllers, data loggers and control packages. All designed to industry standards, suitable for a wide range of users from OEM manufacturers to the most demanding of industrial and offshore end users.



Performance data

Totalisers & flow rate/density/level/temperature/pressure indication
Frequency to analogue conversion
Batch controlling
Data logging
Industrial control
ATEX/IECEX (Ex ia, Ex d), wall, meter or panel mount



Common application fluids

Industrial control
Batching of liquids
Fuels and lubricants usage
Logging processes





Density Measurement

Using either a tuning fork or a specifically designed Coriolis element the DIMF gives precise density or concentration measurement. Applications where the quality of the fluid is critical such as diesel custody transfer, pharmaceutical, or mixing and blending, the DIMF can improve your manufacturing or control procedures. There is also an economical version for volume OEM applications.



Performance data

Density Range: 0-5000 kg/m³
 $\frac{1}{4}$ " to 2" pipe sizes
 Pressures up to 100 Bar
 Temperatures up to 210°C
 Stainless Steel, Tantalum, Inconel, Monel
 ATEX, Display, analogue output (HART)



Common application fluids

Fuels
 Water
 Polyurethanes
 Paint



Markets & Areas of application

Pharmaceutical mixing
 Custody transfer
 Blending and mixing
 Interface detection



Advantages

High accuracy density or concentration measurement



Performance data

Flow rates from: $\frac{1}{4}$ " to 8"
 Pressures up to 40 Bar
 Temperatures up to 280°C
 Bronze, Cast Iron, Carbon Steel or Stainless Steel
 Threaded, flanged, flap, rotor, ball, heating/cooling jacket, wiper, lighting



Common application fluids

Cooling water
 Lubricating oils
 Fuels



Markets & Areas of application

Cooling water monitoring
 Lubrication to bearings
 Nitrogen blankets



Advantages

Low cost simple fluid or air flow check



Sight Flow Indicators

Sight glasses are primarily used to provide a window into the pipe or tank, allowing simple indication of flow, condition and colour of liquids. Ideal for cooling or lubrication circuits where a cost effective visual flow check is desirable to avoid damage to vital components such as moulds or bearings. For liquids there are straight through, flap or rotor designs & for gases, the flap or ball designs are generally used.

Pressure, Level & Temperature Measurement

In addition to flow measurement, UK Flowtechnik offers a comprehensive suite of level switches/transmitters, temperature and pressure sensors. Designed for the process industry, these rugged industry standard sensors offer reliability and economy without compromising performance.



Performance data

Pressure - from vacuum to 4000 Bar (including mbar & differential ranges)
 Level - from mechanical float design to versatile guided wave radar
 Temperature - in-line or tank mounting Pt100, J & K type thermocouples
 Standard, ATEX and subsea options



Common application fluids

Cooling water
 Lubricating and hydraulic oils
 Fuels



Markets & Areas of application

Hydraulic systems and power packs
 Lubrication rigs
 Water cooling circuits
 General process industry applications



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment

We also offer:

- Pump systems & magnetic drives
- Oil tanks, heaters & coolers
- Bell housings, couplings and dampening elements



Call us on: **0800 433 4770** for more info and our other brochures in the range...



For all enquiries, please contact:

UK Flowtechnik Ltd
1 Central Park
Lenton Lane
Nottingham
NG7 2NR

UK Freephone: **0800 433 4770**
Telephone: **+44 (0) 115 901 7111**
Fax: **+44 (0) 115 986 8875**
Website: **www.ukflowtechnik.com**
Email: **sales@ukflowtechnik.com**