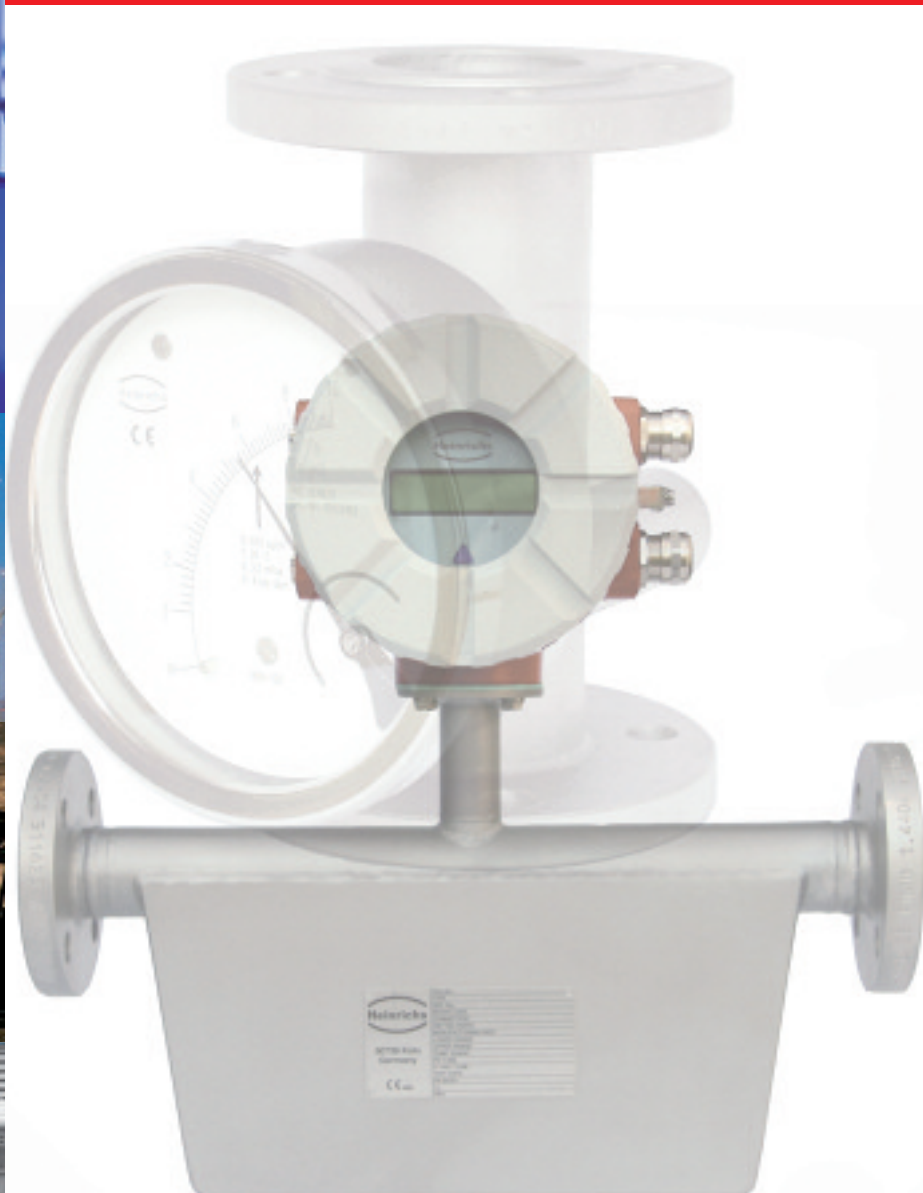




Product Overview



 made
in
Germany

Heinrichs Messtechnik GmbH



Coriolis Mass Flow Meter TM, TMU and TME

Applications:

Measurement of mass flow, density, temperature and volume flow.

Areas of application:

Liquids, gases

Special Features:

Reliability, rugged design.

The electronic transmitter can be mounted integral or remote.

Numerous versions and tailor made designs are available!

Special materials

Technical data:

Range: from 0,8 kg/h up to 2.200.000 kg/h of liquid

Accuracy: $\pm 0,1\%$ of reading \pm zero-stability (liquid)

Process temperature: $-90^{\circ}\text{C} \dots +260^{\circ}\text{C}$

Ingress protection: IP 65

Various process connections: as well as special connections

Special materials: Tantalum, Hastelloy, Nickel, Titanium, etc.

Nominal pressure: up to 900 bars

Options:

Additional hHeat jacketing: Steam, liquid, electrical

Certificates and approval:

Explosion protection, ATEX: intrinsically safe

Approval by different metrological institutes

PED

FM (applied for)

NEPSI (applied for)



Transmitter UMC3 for Coriolis Mass Flow Meter

User-friendly digital transmitter with microcontroller, easy to handle.

Product specialities:

Reliability

Easy to handle

The transmitter can be replaced without recalibration.

DSB data memory module

Technical data:

2 current outputs (0) 4 - 20mA

1 Pulse output

1 Status output

Options:

The display/interface board can be installed separately.

Approval:

Explosion protection, ATEX: intrinsically safe, explosion proof, increased safety

Approval by different metrological institutes

FM (applied for)

NEPSI (applied for)

Communication:

HART®

Profibus



Magnetic-Inductive Flow Meters EP, PIT, PITY

Applications:

Volume flow measurement

Areas of application:

Flow measurement of conductive liquids

Product specialities:

Reliability

Different materials for electrodes (e. g. Hastelloy, Platinum, Tantalum, Gold, and many more.)

Tailor made solutions.

Transmitter UMF (to be used in hazardous areas)

Transmitter UMF2

EP

Inline sensor with linings made of PFA, PTFE, hard rubber

Technical data:

Nominal size: DN10 ... DN600

Nominal pressure: up to PN 40

Range: 0,0015 m³/h ... 10.000 m³/h

Viscosity: 0,2 mPas ... 50.000 mPas

Process temperature: -25°C ... +180°C

Accuracy: ±0,5% of measuring value

Options:

Different nominal size, pressure rating and ranges on request!

PIT, PITY

Insertion type MAG meter as an alternative to classic inline MAG flow meters.

Technical data:

Range I 0.5 m/s ... 5 m/s

Range II 1 m/s ... 10 m/s

Nominal pressure: up to PN40

Accuracy: ±1,5% of reading ±0,5% of max. range

Appropriate for nominal sizes up to 2.000 mm.

Options:

Retractable during operation



Transmitters UMF and UMF2 for Magnetic-Inductive Flow Meters

Transmitter UMF

Easy to handle digital transmitter for magnetic-inductive sensors of the series EP, PIT and PITY.

Product specialities:

Can be used in hazardous areas

The electronic transmitter can be mounted integral or remote.

The transmitter can be replaced without recalibration.

DSB data memory module

Technical data:

1 current output 0/4 - 20mA

1 pulse output, 1 status output

Options:

The display/interface board can be installed separately.

Approval:

Explosion protection, ATEX: intrinsically safe, explosion proof, increased safety NEPSI (applied for)

Communication:

HART®

Transmitter UMF2

Easy to handle digital transmitter for magnetic-inductive sensors of the series EP, PIT and PITY.

Product specialities:

The electronic transmitter can be mounted integral or remote.

The transmitter can be replaced without recalibration.

Digital on-site display (with illuminated background)

Technical data:

1 current output 0/4 - 20mA

1 pulse output

1 status output

Communication:

HART®





Variable Area Flow meter

BGN, BGF series

Applications:

Volume flow measurement of liquids and gases

Product specialities:

Can be used for vertical and horizontal installation.
Reliability
Robust construction with magnetic transmission of measured values.
Wide and clear scale. Can be used in hazardous areas

Technical data:

Range: 0,005 m³/h ... 130 m³/h of water
Nominal size: up to DN150 / ANSI 6"
Nominal pressure: up to PN 600
Process temperature BGN / BGF: -80°C ... +350°C

Options:

Design BGF: horizontal or vertical installation possible.
Spring stop, gas damping
Special materials, e. g. Hastelloy or PTFE lining.
Heat jacketing
Display unit in stainless steel, IP 68
Electronic transmitter ES
Limit switches

Communication:

HART®
Profibus

Series: KD1, KDS, BGK

for low flow applications

Product specialities:

Reliability. Robust construction with magnetic transmission of measured values (KDS, BGK).
Can be used in hazardous areas

Technical data KD1:

Range: 0,25 l/h ... 100 l/h of water
Nominal pressure: up to 16 bars
Connection: ¼" NPT (F)

Technical data KDS:

Range: 1 l/h ... 200 l/h of water
Nominal pressure: up to 64 bars
Connection: ¼" NPT (F)

Technical data BGK:

Range: 1 l/h ... 200 l/h of water
Nominal pressure: up to 40 bars
Connection: Flange

Options:

Limit switches. Differential-pressure controller. Higher pressure ratings on request

V 30 series

Glass

Product specialities:

Reliability
Robust and low-wear mechanical flow meter.

Technical data:

Ranges: from 100 l/h up to 10.000 l/h (water)
Accuracy class: 1,6
Process temperature: 0°C ... +80°C
Various process connections

Options:

Limit switches
Splinter protection

VKN series

Plastics

Product specialities:

Reliability
Robustness

Technical data:

Ranges: from 0.05 m³/h up to 50 m³/h of water
Nominal sizes: G ½" ... G 2"
Process temperature: up to +60°C

Option:

Limit switches

Flap Flow Meter TSK

Applications:

Flow measurement of liquids

Product specialities:

Can be used for vertical and horizontal installation.

Reliability

Robust construction with magnetic transmission of measured values.

Wide and clear scale

Special materials Hastelloy, PTFE, or PP

Can be used in hazardous areas

Technical data:

Range: 1,5 m³/h ... 1.200 m³/h

Nominal sizes: DN50 ... DN500 in sandwich structure

Nominal pressure: up to PN 100

Process temperature: -20°C ... +300°C

Options:

Display unit in stainless steel, IP 68

Electronic transmitter ES

Limit switches

Communication:

HART®

Profibus



Electronic Transmitter ES

Can be used in the following devices, BGN, BGF, TSK (flow metering), DWF (density metering), BA (level metering).

Product specialities:

Reliability

The transmitter can be replaced without recalibration.

2-wire system

Application possible in hazardous areas

Linearization of the characteristic with 16 fulcrums

Technical data:

Current output 4 - 20mA

Explosion protection, ATEX: intrinsically safe

Options:

Digital display

Limit switches acc. to NAMUR (software-controlled)

Pulse output

Communication:

HART®

Profibus





Level metering

Applications:

Level or interface metering

MBSK series

Product specialities:

Reliability. Robust construction with magnetic transmission of measured values. Big scale with 180°-wide angle ball-display. Can be used in hazardous areas. Self-monitoring function. PTB approval for zone 0

Technical data:

Process temperature: up to +350°C
Nominal pressure: up to 400 bars

Options:

Polypropylene fittings, PVDF- and PTFE-lining. Limit switches
Reed contact with electronic transmitter, 4-20mA, HART®
Approval: Possible by TÜV, Germanischer Lloyd and Bureau Veritas



BA series

Product specialities:

Reliability. Robust construction with magnetic transmission of measured values. Wide and clear scale. Can be used in hazardous areas (Zone 0).

Technical data:

Range: up to 6 m
Connection: up to DN100 / ANSI 4"
Nominal pressure: up to PN 160
Process temperature: -50°C ... +260°C

Options:

Various special materials. Heat jacketing
Display unit in stainless steel, IP 68
Electronic transmitter ES
Limit switches

Communication:

HART®
Profibus



Density meter DWF

Applications:

In-line density measurement of liquids or multiphase-mixtures

Product specialities:

Reliability. Robust construction with magnetic transmission of measured values. Can be used in hazardous areas. No by-pass required. Wide and clear scale

Technical data:

Medium density: from 700 g/l to 1.900 g/l
Measuring span: 50 g/l ... 600 g/l
Flow: up to 10 m³/h
Nominal sizes: DN25 or DN50
Process temperature: -20°C ... +200°C
Nominal pressure: up to PN 16

Options:

Special materials according to customer request. Process connection according to customer request. Additional heating. Display unit in stainless steel, IP 68. Transmitter ES. Limit switches

Communication:

HART®
Profibus



Heinrichs Messtechnik can look back to a company tradition of almost 100 years

The history of the company began with the construction of Variable Area Flow Meters.

As soon as electronics conquered measuring technology, the product portfolio could be extended by Magnetic-Inductive Flow Meters.

As one of the first European companies, Heinrichs designed a Mass Flow Meter working with the Coriolis principle, almost 20 years ago.

The adaptation of microprocessor technologies by the end of the nineties lead to modern communication technologies as e. g. HART® and Profibus.

Following main industries are served:

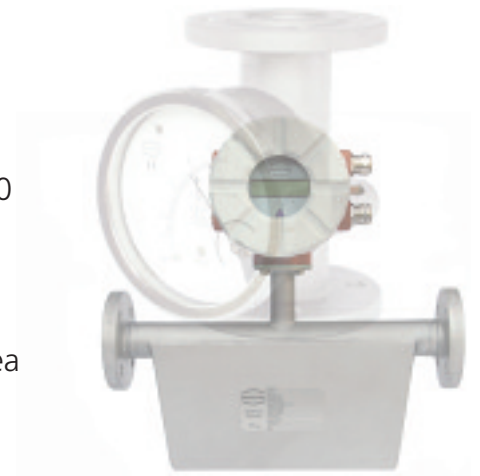
Chemical / Petrochemical

Oil and gas

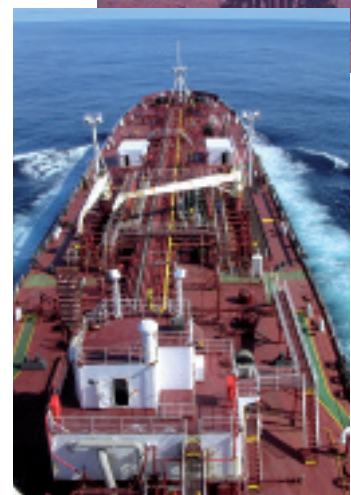
Energy and Engineering

Heinrichs offers competence, flexibility and tailor-made solutions as e. g. special materials, high temperature designs, high pressure designs, heat jacketing

Your measuring problem is our challenge



Company Profile



around the World



Heinrichs Messtechnik GmbH

