



Flowmeters/-switches

Calorimetric Indicator/Switch
Stainless steel
Model: KAL-D



Water: 0.04 - 2 m/s
 t_{max} 80°C; p_{max} 40 bar
Connection:
G ¼", G ½", ¼" NPT, ½" NPT, M12

Calorimetric Indicator/Switch
Stainless steel
Model: KAL-K



Water: 0.04 - 2 m/s
 t_{max} 120°C; p_{max} 100 bar
Connection:
G ¼" ... 1½", ¼" ... ¾" NPT, M12, Tri-Clamp®

Calorimetric Meter/Switch
Stainless steel
Model: KAL-A(K)



Water: 0.04 - 2 m/s
 t_{max} 120°C; p_{max} 100 bar
Connection:
G ¼" ... 1½", ¼" ... ¾" NPT, M12, Tri-Clamp®
Accuracy: ± 10 % of full scale

Calorimetric Indicator/Switch
Brass, stainless steel
Model: KAL, KAL-E



Water: 0.04 - 2 m/s
 t_{max} 120°C; p_{max} 100 bar
Connection:
G ¼" ... 1½", ¼" ... ¾" NPT, M12

Calorimetric Flowmeter/Switch
Stainless steel
Model: DVK



Air: 1 - 10 Nl/min ... 600 - 12000 Nl/h
 t_{max} 50°C; p_{max} 15 bar
Connection: G ¼" ... 2
Accuracy: 5 % of full scale

Calorimetric Indicator/Switch
Brass
Model: KAL-L



Air: 1 - 20 m/s
 t_{max} 120°C; p_{max} 8 bar
Connection:
G ½", Rp ½", M18, flange, smooth shaft
Accuracy: 10 % of reading

Mass - Flowmeter - Thermal
Aluminium, stainless steel
Model: DMW-A/B



Air: 5 - 100 Nml/min ... 380 - 7 500 Nl/min
 t_{max} 50°C; p_{max} 10 bar
Connection: G ¼" ... 1 female thread
Accuracy: 3 % of full scale

Mass - Flowmeter/Controller - Thermal
Aluminium, stainless steel
Model: DMW-C/D



Air: 5 - 100 Nml/min ... 50 - 1000 Nl/min
 t_{max} 50°C; p_{max} 10 bar
Connection: G ¼" ... ½ female thread
Accuracy: 3 % of full scale

Mass - Flowmeter - Thermal
Nylon, stainless steel
Model: MAS



Air: 0 - 10 Nml/min ... 0 - 500 Nml/min
 t_{max} 50°C; p_{max} 35 bar
Connection:
¼" NPT female thread, Swagelok
Accuracy: ± 1.5 % of full scale

Mass - Meter/Controller - Thermal
Nylon, stainless steel
Model: MFC



Air: 0 - 10 Nml/min ... 0 - 50 Nl/min
 t_{max} 50°C; p_{max} 35 bar
Connection:
¼" NPT female thread, Swagelok
Accuracy: ± 1.5 % of full scale

Mass - Meter/Controller - Thermal
Stainless steel
Model: DMS



Air: 0 - 10 Nml/min ... 0 - 200 Nl/min
 t_{max} 50°C; p_{max} 35 bar
Connection: ¼" ... ½" NPT female thread,
clamp connection
Accuracy: ± 1 % of full scale

Mass - Flowmeter - Thermal
Stainless steel
Model: KMT-1/-2/-3



Air: 0.5 - 200 Nm/s
 t_{max} 80°C; p_{max} 16 bar
Connection: R ½" ... 2 ball valve
Accuracy: ± 2.5 % of reading
± 0.15 % of full scale





Flowmeters/-switches

Mass - Flowmeter - Thermal
Stainless steel

Model: KMT-4



Air: 0.2 - 200 Nm/s
 t_{max} 80°C; p_{max} 16 bar
 Connection: R 1/2" male for insertion (DN65...DN300)
 Accuracy: $\pm 2.5\%$ of reading $\pm 0.5\%$ of full scale

Mass - Flowmeter - Thermal
Stainless steel

Model: KES-1/3/4



Air: 0 - 4.7 m/s ... 0 - 94 m/s
 t_{max} 175°C; p_{max} 16 bar
 Connection: 1/4" ... 8" NPT, compression fitting with 1/2" NPT, 1" NPT
 Accuracy: $\pm 1.0\%$ of full scale $\pm 0.5\%$ of reading

Coriolis Mass
Stainless steel

Model: TME/UMC-3



Water: 0 - 60 kg/h ... 0 - 60 000 kg/h
 t_{max} 180°C; p_{max} PN 40
 Connection: flange DN 10 ... 80, ANSI 1/2" ... 3"
 Accuracy: $\pm 0.15\%$ of reading

Coriolis Mass
Stainless steel, Hastelloy

Model: TMU/UMC-3



Water: 0 - 60 kg/h ... 0 - 2 200 000 kg/h
 t_{max} 260°C;
 p_{max} PN 40 (up to 750 bar on request)
 Connection: flange DN 10 ... 300, ANSI 1/2" ... 12"
 Accuracy: $\pm 0.1\%$ of reading

Coriolis Mass with Heating
Stainless steel, Hastelloy

Model: TMU-...AC



Water: 0 - 60 kg/h ... 0 - 1 900 000 kg/h
 t_{max} 260°C; p_{max} PN 40
 Connection: flange DN 10 ... 300, ANSI 1/2" ... 12"
 Accuracy: $\pm 0.1\%$ of reading

Coriolis Mass
Stainless steel, Hastelloy, tantalum

Model: TM/UMC-3



Water: 0 - 0.8 kg/h ... 0 - 65 000 kg/h
 t_{max} 260°C; p_{max} PN 40
 Connection: 1/4" ... 1/2" NPT, flange DN 10 ... 100, ANSI 1/2" ... 4"
 Accuracy: $\pm 0.1\%$ of reading

Coriolis Mass
Stainless steel, Hastelloy, tantalum

Model: TMR/UMC-3



Viscosity range: 0.3 - 50 000 mPas
 Water: 0 - 120 kg/h ... 0 - 120 000 kg/h
 t_{max} 260°C; p_{max} PN 40
 Connection: flange DN 20 ... 100, ANSI 3/4" ... 4"
 Accuracy: $\pm 0.1 - 0.15\%$ of reading

Coriolis Mass
Stainless steel

Model: TME/UMC-4



Water: 0 - 60 kg/h ... 0 - 60 000 kg/h
 t_{max} 180°C; p_{max} PN 40
 Connection: flange DN 10 ... 80, ANSI 1/2" ... 3"
 Accuracy: $\pm 0.15\%$ of reading

Coriolis Mass
Stainless steel, Hastelloy

Model: TMU/UMC-4



Water: 0 - 60 kg/h ... 0 - 2 200 000 kg/h
 t_{max} 260°C;
 p_{max} PN 40 (up to 750 bar on request)
 Connection: flange DN 10 ... 300, ANSI 1/2" ... 12"
 Accuracy: $\pm 0.1\%$ of reading

Orifice Plate - Differential Pressure
Steel, stainless steel, Hastelloy C, titanium, Monel, tantalum

Model : KPL



Measuring span: 1:10
 Connection: DN 50...1600,
 t_{max} 560°C; p_{max} PN 100

Venturi Nozzle - Differential Pressure
Aluminium-bronze, stainless steel

Model: RCD-...Z



Water: 0.5 - 3.3 l/min ... 300 - 2 350 l/min
 Air: 0.5 - 5.35 Nm³/h ... 300 - 2 750 Nm³/h
 t_{max} 100°C; p_{max} PN 40
 Connection: G 1/2 ... 3, 1/2 ... 3" NPT female
 Accuracy: $\pm 3\%$ of full scale

Venturi Nozzle - Differential Pressure
Aluminium-bronze, stainless steel

Model: RCD-...C3



Water: 0.5 - 3.3 l/min ... 300 - 2 350 l/min
 Air: 0.5 - 5.35 Nm³/h ... 300 - 2 750 Nm³/h
 t_{max} 100°C; p_{max} PN 40
 Connection: G 1/2 ... 3, 1/2 ... 3" NPT female
 Accuracy: $\pm 3\%$ of full scale





Flowmeters/-switches

Orifice Differential Pressure Flowmeter

Aluminium-bronze, stainless steel
Model: RCD-...K



Water: 0.5 - 3.3 l/min ... 300 - 2350 l/min
Air: 0.5 - 5.35 Nm³/h ... 300 - 2750 Nm³/h
t_{max} 100°C; p_{max} PN 40
Connection: G 1/2 ... 3, 1/2 ... 3" NPT female
Accuracy: ± 3 % of full scale

Electromagnetic - Analogue Output

PPS/Stainless steel, PVDF/Hastelloy
Model: MIK-...L4 with AUF

High Quality - Low Cost



Water: 10 - 500 ml/min ... 40 - 800 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/2 ... 2 3/4 male thread
Accuracy: ± 2 % of full scale

Electromagnetic - Pulse Output
PPS/Stainless steel, PVDF/Hastelloy
Model: MIK-...F3

High Quality - Low Cost



Water: 10 - 500 ml/min ... 40 - 800 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/2 ... 2 3/4 male thread
Accuracy: ± 2 % of full scale

Electromagnetic - Compact Electronics
PPS/Stainless steel, PVDF/Hastelloy
Model: MIK-...C3

High Quality - Low Cost



Water: 10 - 500 ml/min ... 40 - 800 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/2 ... 2 3/4 male thread
Accuracy: ± 2 % of full scale

Electromagnetic - Counter
PPS/Stainless steel, PVDF/Hastelloy
Model: MIK-...E

High Quality - Low Cost



Water: 10 - 500 ml/min ... 40 - 800 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/2 ... 2 3/4 male thread
Accuracy: ± 2 % of full scale

Electromagnetic - Dosing Electronics
PPS/Stainless steel, PVDF/Hastelloy
Model: MIK-...G

High Quality - Low Cost



Water: 10 - 500 ml/min ... 40 - 800 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/2 ... 2 3/4 male thread
Accuracy: ± 2 % of full scale

Electromagnetic - Insertion
Stainless steel, PTFE- or PFA-lining
Model: PIT



Water: 0 - 5 m/s or 0 - 10 m/s
t_{max} 150°C; p_{max} PN 40
Connection:
flange DN 40 ... 80, ANSI 2" ... 3",
for pipelines DN 150 ... 2000
Accuracy: ± 1.5% of reading

Electromagnetic - Insertion with Installation-/Extracting Device
Stainless steel, PTFE- or PFA-lining
Model: PIT-U



Water: 0 - 10 m/s
t_{max} 100°C; p_{max} PN 40
Connection:
flange DN 40 ... 80, ANSI 2" ... 3"
Accuracy:
± 1.5 % of reading ± 0.5 % of full scale

Electromagnetic Meter
Lining: hard rubber, soft rubber, Wa-
gunit, PTFE, PVDF
Model: DMH



Water: 0 - 10 m/s
t_{max} 150°C; p_{max} PN 40
Connection:
flange DN 10 ... 1200, ANSI 1/2" ... 48"
Option: Sensor in stainless steel, wafer
type, sanitary connections
Accuracy: ± 0.3 % of reading

Ultrasonic Meter for Flow Measurement in Open Channels
PP
Model: NUS-4



Measuring range (water): depends on
dimensions of canal/weir
t_{max} 90°C; p_{max} 3 bar abs
Connection:
G 1 1/2, G 2, 1 1/2" NPT, 2" NPT male, DN 80,
DN 125, DN 150, ANSI 3", 5", 6"
Analogue output
Accuracy: depends on dimensions of
canal/weir

Vortex - Switch
PPS/Brass, PPS/Stainless steel
Model: DVZ-...S3

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: ± 2.5 % of full scale

Vortex - Analogue Output
PPS/Brass, PPS/Stainless steel
Model: DVZ-...L

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: ± 2.5 % of full scale





Flowmeters/ Switches

Vortex - Analogue Output
PPS/Brass, PPS/Stainless steel
Model: DVZ-...L4 with AUF

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
 t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: $\pm 2.5\%$ of full scale

Vortex - Pulse Output
PPS/Brass, PPS/Stainless steel
Model: DVZ-...F3

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
 t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: $\pm 2.5\%$ of full scale

Vortex - Compact Electronic
PPS/Brass, PPS/Stainless steel
Model: DVZ-...C3

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
 t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: $\pm 2.5\%$ of full scale

Vortex - Counter
PPS/Brass, PPS/Stainless steel
Model: DVZ-...E

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
 t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: $\pm 2.5\%$ of full scale

Vortex - Dosing Electronic
PPS/Brass, PPS/Stainless steel
Model: DVZ-...G

High Quality - Low Cost



Water: 0.5 - 4.5 l/min ... 10 - 100 l/min
 t_{max} 80°C; p_{max} 10 bar
Connection: G 1/4 ... 1, 1/4 ... 1" NPT
Accuracy: $\pm 2.5\%$ of full scale

Vortex - Meter
Stainless steel
Model: DVH



Water: 0.2 - 5 ... 32 - 970 m³/h
Air:
3 - 28 Nm³/h ... 3057 - 280187 Nm³/h
 t_{max} 400°C; p_{max} PN 100
Connection: DN 15 ... 200, ANSI 1/2" ... 8"
Option: integrated temperature and pressure sensor, wafer type
Accuracy: $\pm 0.7\%$ of reading (water)
 $\pm 1\%$ of reading (gas/steam)

Vortex - Meter
Stainless steel
Model: DVE



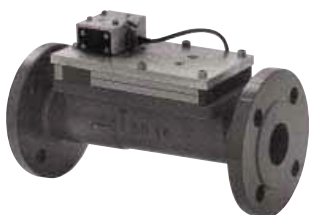
Water: 5.2 - 157 ... 284 - 8537 m³/h
Air: 889 - 1463 Nm³/h ... 26915 - 2467081 Nm³/h
 t_{max} 400°C; p_{max} 100 bar
Connection: 2" NPT, DN 50, ANSI 2" mountable in NW80 ... NW600
Option: integrated temperature and pressure sensor, Installation/removal device
Accuracy: $\pm 1.2\%$ of reading (water)
 $\pm 1.5\%$ of reading (gas/steam)

Oscillation - Meter/Switch
Stainless steel
Model: DOG-1



Air: 0.2 - 20 Nm³/h ... 35 - 3500 Nm³/h
Pressure drop: max. 50 mbar
 t_{max} 120°C (for EX 60°C); p_{max} PN 40
Connection: Flange DN 25 ... 200, ANSI 1" ... 8"
Accuracy: $\pm 1.5\%$ of reading

Oscillation - Meter/Switch
Stainless steel
Model: DOG-2



Water:
0.075 - 3.75 m³/h ... 19.6 - 980 m³/h
 t_{max} 120°C; p_{max} PN 40
Connection: flange DN 25 ... 200, ANSI 1" ... 8"
Accuracy: $\pm 0.5\%$ of reading

Oscillation - Meter/Switch
Transducer/Transmitter
Model: DOG-1/-2... Electronic options



Input: frequency
Analogue output
Limit contacts, sensor supply, counter, flow computer

Ultrasonic - Switch
Brass, stainless steel
Model: DUK-...S3

High Quality - Low Cost



Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
 t_{max} 90°C; p_{max} 10 bar
Connection: G 1/2 ... 3 female thread
Accuracy: $\pm 1.5\%$ of full scale

Ultrasonic - Analogue Output
Brass, stainless steel
Model: DUK-...L4 with AUF

High Quality - Low Cost



Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
 t_{max} 90°C; p_{max} 10 bar
Connection: G 1/2 ... 3 female thread
Accuracy: $\pm 1.5\%$ of full scale



Ultrasonic - Pulse Output

Brass, stainless steel

Model: DUK-...F3

High Quality - Low Cost



Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
t_{max} 90 °C; p_{max} 10 bar
Connection: G ½ ... 3 female thread
Accuracy: ± 1.5 % of full scale

Ultrasonic - Compact Electronics-

Brass, stainless steel

Model: DUK-...C3

High Quality - Low Cost



Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
t_{max} 90 °C; p_{max} 10 bar
Connection: G ½ ... 3 female thread
Accuracy: ± 1.5 % of full scale

Ultrasonic - Counter/Dosing

Brass, stainless steel

Model: DUK-...E, G

High Quality - Low Cost



Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
t_{max} 90 °C; p_{max} 10 bar
Connection: G ½ ... 3 female thread
Accuracy: ± 1.5 % of full scale

Ultrasonic - Digital Display

Brass, stainless steel

Model: DUK-...K

High Quality - Low Cost

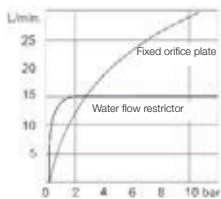


Water: 0.08 - 20 l/min ... 2.5 - 630 l/min
t_{max} 90 °C; p_{max} 10 bar
Connection: G ½ ... 3 female thread
Accuracy: ± 1.5 % of full scale

Flow Regulators

Brass, stainless steel

Model: REG



Viscosity range: 1 - 30 mm²/s
Flow rates: 0.5 - 40 l/min
t_{max} 300 °C; p_{max} 200 bar
Connection: G ½, G ¾, ¾" NPT

Flow Regulators

Brass, stainless steel

Model: REG



Viscosity range: 1 - 30 mm²/s
Flow rates: 0.5 - 40 l/min
t_{max} 300 °C; p_{max} 200 bar
Connection: G ½, G ¾, ¾" NPT

Flow Regulators - Multiple Element

Brass, stainless steel

Model: REG-8



Viscosity range: 1 - 30 mm²/s
Flow rates: 1 - 280 l/min
t_{max} 300 °C; p_{max} 200 bar
Connection: flange DN 20...50

Flow Regulators - Multiple Element

Brass, stainless steel

Model: REG-9



Viscosity range: 1 - 30 mm²/s
Flow rates: 1 - 280 l/min
t_{max} 300 °C; p_{max} 200 bar
Connection: G 1½ ... G 2½

Flow Indicator with Rotor

Brass, stainless steel

Model: DAA, DAH



Water: 0.4 - 4 l/min ... 8 - 100 l/min
t_{max} 100 °C; p_{max} 16 bar
Connection: G ¼ ... 1½, ¼ ... 1½" NPT female

Flow Indicator with Rotor

Grey cast iron, cast steel, stainless steel

Model: DAR-1



t_{max} 260 °C; p_{max} 40 bar
Connection: G ¼ ... 2, ¼ ... 2" NPT female

Flow Indicator with Rotor

Grey cast iron, cast steel, stainless steel

Model: DAR-2



t_{max} 260 °C; p_{max} 40 bar
Connection: flange DN 15...200, ANSI ½" ... 8"

Flow Indicator with Rotating Vane

Brass, stainless steel

Model: DAF-1



Water: 0.03 - 0.1 l/min ... 5 - 150 l/min
t_{max} 110 °C; p_{max} 16 bar
Connection: G ½ ... 1½, ¼ ... 1½" NPT female





Flow Indicators

Flow Indicator with Rotor
Brass, stainless steel

Model: DAF-2



Water: 0.03 - 0.1 l/min ... 5 - 150 l/min
t_{max} 110 °C; p_{max} 16 bar
Connection:
flange DN 15 ... 50, ANSI ½" ... 2"

Flow Indicator with Rotor
Brass

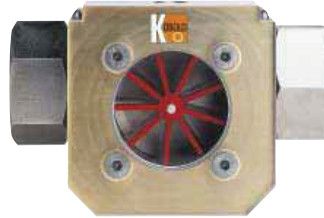
Model: DKF



Water: 0.14 - 2 l/min ... 1.8 - 83 l/min
t_{max} 120 °C; p_{max} 6 bar
Connection: G ¾" ... 1, ½" ... 1" NPT female

Flow Indicator with Rotor
Brass, stainless steel, POM

Model: DIH



Water: 0.2 - 0.5 l/min ... 1 - 50 l/min
t_{max} 80 °C; p_{max} 16 bar
Connection:
G ¾, G 1 female thread, ¾" NPT, 1" NPT

Flow Indicator with Rotor
PP, aluminium-bronze, stainless steel

Model: DIG



Water: 0.5 - 12 l/min ... 3 - 80 l/min
t_{max} 80 °C; p_{max} 16 bar
Connection: G ¾" ... 1, ½" ... 1" NPT female

Flow Indicator with Flap
Grey cast iron, cast steel, stainless steel

Model: DAK-1



t_{max} 280 °C; p_{max} 40 bar
Connection: G ¼" ... 2, ½" ... 2" NPT female

Flow Indicator with Flap
Grey cast iron, cast steel, stainless steel

Model: DAK-2



t_{max} 280 °C; p_{max} 40 bar
Connection:
flange DN 15 ... 200, ANSI ½" ... 8"

Flow Indicator with Flap
Red cast iron

Model: DAZ



Water: 2.1 - 17 l/min ... 2.1 - 24 l/min
t_{max} 200 °C; p_{max} 16 bar
Connection: G ½" ... 1 female thread

Flow Indicator with Ball
Bronze

Model: DAB



t_{max} 100 °C; p_{max} 6 bar
Connection: G ¾" ... 3 female thread

Flow Indicator with Ball
Brass

Model: DKB



Water:
0.05 - 15 l/min ... 0.14 - 105 l/min
t_{max} 120 °C; p_{max} 6 bar
Connection: G ¾" ... 1, ½" ... 1" NPT female

Flow Indicator with Drip Tube
Grey cast iron, cast steel, stainless steel

Model: DAT-1



t_{max} 280 °C; p_{max} 40 bar
Connection: G ¼" ... 2, ½" ... 2" NPT female

Flow Indicator with Drip Tube
Grey cast iron, cast steel, stainless steel

Model: DAT-2



t_{max} 280 °C; p_{max} 40 bar
Connection:
flange DN 15 ... 200, ANSI ½" ... 8"

Flow Indicator - Sight Glass
Stainless Steel, PVC

Model: UFJ



Connection: G ¼" ... G 2 female
t_{max} 100 °C; p_{max} 20 bar





Pressure Measurement

Bourdon Tube Pressure Gauges

Brass, stainless steel

Model: MAN-R,-Q



Measuring range:
-1 ... 0 bar ... 0 ... +1 000 bar
Housing: Ø 63, 100, 160 mm
Overload protected: 1.15- 1.3 times
Connection: G ¼, G ½ male thread
Accuracy: Cl. 1.0; 1.6

All Stainless Steel Bourdon Tube Pressure Gauges

Stainless steel

Model: MAN-R



Measuring range:
-1 ... 0 bar ... 0 ... +1 000 bar
Housing: Ø 63, 100, 160 mm
Overload protected: 1.15- 1.3 times
Connection: G ¼, G ½ male thread
Accuracy: Cl. 1.0; 1.6

All Stainless Steel Bourdon Tube Pressure Gauges for Exceptional Safety

Stainless steel

Model: MAN-N...S



Measuring range:
-1 ... 0 bar ... 0 ... +1600 bar
Housing: Ø 63, 100, 150 mm
Overload protected: 1.15- 1.5 times
Connection:
G ¼, G ½, ½" NPT, ¼" NPT male thread
Accuracy: Cl. 1.0; 1.6

Bourdon Tube - Refrigeration

Brass, stainless steel

Model: MAN-T



Measuring range:
-1 ... +9 bar ... -1 ... +40 bar
Housing: Ø 63, 80, 100 mm
Overload protected: 1.0 times
Connection: 7/16-20 UNF, G ¼ male
Accuracy: Cl. 1.0; 1.6

Capsule Element Pressure Gauges

Brass, stainless steel

Model: MAN-K



Measuring range:
-10 ... 0 bar ... 0 ... +600 bar
Housing: Ø 63, 80, 100, 160 mm
Overload protected: 0.9- 10 times
Connection: G ¼, G ½ male thread
Accuracy: Cl. 1.6

Diaphragm Pressure Gauges

Stainless steel

Model: MAN-P



Measuring range:
-16 ... 0 mbar; 0 ... +40 bar
Housing: Ø 100, 160 mm
Overload protected: 1.15- 1.3 times
Connection: G ½ male thread, open flange
Accuracy: Cl. 1.6

All Stainless Steel Pressure Transducer

Stainless steel

Model: MAN-ZF



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar
Housing: Ø 100 mm
Overload protected: 0.9- 1.0 times
Connection: G ½ male thread
Accuracy: Cl. 1.0

Pressure Gauges Digital with Ceramic Sensor Element, Battery Powered

St. steel/PA glass fibre reinforced

Model: MAN-SD



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: LC-Display
Overload protected: 1.3- 3 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male
Accuracy: Cl. 0.5

Pressure Gauges Digital with Ceramic Sensor Element

Stainless steel/PA glass fibre reinforced

Model: MAN-LD



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: LC-Display
Overload protected: 1.3- 3 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male thread
analogue output 4-20mA
power supply: 24 V_{DC}
Accuracy: Cl. 0.5

Pressure Gauges with Ceramic/-Thin Film Cell

Stainless steel

Model: PDC



Measuring range:
0 ... +2 bar ... 0 ... +700 bar
Display: 2 x 4½-digit LCD, illuminated
Overload protected:
2 times - max. 1 000 bar
Connection: G ¼, ¼" NPT male thread
Accuracy: ± 0.5 % of full scale ... ±1 Digit

Pressure Gauges Digital with Ceramic Sensor Element

Stainless steel/PA glass fibre reinforced

Model: MAN-SF26



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: 4-digit LED
Overload protected: 2 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male thread
Accuracy: Cl. 0.5

U-Pipe Pressure Gauges

Glass

Model: PUM



Measuring range:
0 ... ±25 mbar ... 0 ... ± 150 mbar
Scale division: 2 mm
Hose connection: Ø 7 mm
Accuracy: ± 0.2 mbar





Pressure Measurement

Differential Pressure Gauge Digital with Ceramic Sensor Element

St. steel/PA glass fibre reinforced
Model: MAN-BF26



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: 4-digit LED
Overload protected: 2 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male thread
Accuracy: Cl. 0.5

Differential Pressure Gauge Digital with Ceramic Sensor Element

St. steel/PA glass fibre reinforced
Model: MAN-BF20



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: 4-digit LED
Overload protected: 2 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male thread
Accuracy: Cl. 0.5

Differential Pressure Gauge Digital with Ceramic Sensor Element

St. steel/PA glass fibre reinforced
Model: MAN-BF28V



Measuring range:
-1 ... 0 bar ... 0 ... +1 600 bar
Display: 4-digit LED
Overload protected: 2 times
Connection:
G ¼, G ½, ¼" NPT, ½" NPT male thread
Accuracy: Cl. 0.5

Differential Pressure Gauge with double diaphragm

Stainless steel
Model: MAN-U



Measuring range:
0 ... +100 mbar ... 0 ... +25 bar
Static pressure on both sides: 200 bar
Housing: Ø 100 mm, 150 mm
Connection:
G ½, ½" NPT male, ¼" NPT female
Accuracy: Cl. 1.6

Differential Pressure Gauge with Bourdon Tube

Brass, stainless steel
Model: MAN-DF, -DG



Measuring range:
0.1 ... +0.3 bar ... 0 ... +600 bar
Overload protected:
1.3 times - (short time)
Connection: G ½ male thread
Accuracy: Cl. 1.6

Differential Pressure Gauge with Bourdon Tube

Aluminium, steel
Model: MAN-DG12R



Measuring range:
0 ... +1 bar ... 0 ... +60 bar
Housing: Ø 160 mm
Overload protected:
1.3 times - (short time)
Connection: G ½ male thread
Accuracy: Cl. 1.6

Differential Pressure Gauge with Diaphragm

Aluminium
Model: MAN-Dx2A



Measuring range:
0 ... +25 mbar ... 0 ... +25 bar
Housing: Ø 100, 160 mm
Connection: G ¼ female thread
Accuracy: Cl. 1.6

Differential Pressure Gauge with Diaphragm

Stainless steel
Model: MAN-DF2G, -DG2G



Measuring range:
0 ... +60 mbar ... 0 ... +40 bar
special versions up to PN 400
Housing: Ø 100, 160 mm
Connection: G ½ female thread
Accuracy: Cl. 1.6

Hand-Held Pressure Measuring Device for Differential Pressure for 2 External Sensors

Model: HND-P215



Measuring range: -2.5 mbar ... +400 bar
depending on sensor
Option: logger, alarm, control function
Accuracy: ± 0.1 % of full scale

Hand-Held Pressure Measuring Device for Differential Pressure for 2 Integrated Sensors

Model: HND-P126, -P236



Measuring range: -100 ... +2000 mbar
Option: logger, alarm
Accuracy: ± 0.2 % of full scale

Differential Pressure Sensor - Thin Film

Model: PMP



Measuring range: 0 ... +50 mbar
Power supply: 24 V_{AC/DC}, 110 V_{AC}, 230 V_{AC}
Display: 4-digit LED
Connection: hose connection 6 x 8 mm

Differential Pressure Transmitter

St. steel, Monel, tantalum, Hastelloy
Model: PAD

High Quality - Low Cost



Measuring range:
+0.75 mbar ... +413.70 bar
Power supply: 18 - 45 V_{DC}
Connection: ¼" NPT, ½" NPT
Accuracy: ± 0.075 % of measuring span



Pressure Measurement

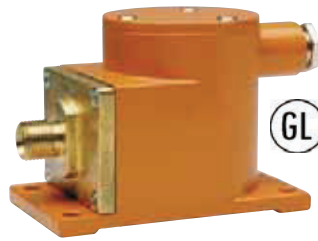
Differential Pressure Transmitter with Diaphragm Seal
St. steel, Monel, Tantalum, Hastelloy, PTFE
Model: PAD-...N

High Quality - Low Cost



Measuring range:
0 ... +250 mbar ... 0 ... +206.80 bar
 t_{max} 200°C
Connection: flange-, thread-, clamp on-, and in-line diaphragm seal (nominal size 15 ... 100)
Accuracy: $\pm 0.075\%$ of calibrated span + influence of diaphragm seal

Pressure Transmitter for Harsh Conditions
Brass
Model: PNK



Measuring range:
-1 ... 0 bar ... 0 ... +100 bar
Overload protection: 1.6 times
Connection: M16x1.5 with sealing cone, Adapter: R ¼, R ½, ½" NPT male thread
Accuracy: $\pm 1\%$ of full scale

Test Pressure Gauge with Bourdon Tube
Aluminium, brass, stainless steel
Model: MAN-F



Measuring range:
-0.6 ... 0 bar ... 0 ... +2500 bar
Housing: \varnothing 160, 250 mm
Overload protected: 1.0 times - (calm)
Connection: G ½ male thread
Accuracy: Cl. 0.25; 0.6

Pressure Gauge with Membrane Diaphragm Seal
Stainless steel
Model: MAN-RF...D



Measuring range:
-1 ... +3 bar ... 0 ... +40 bar
Housing: \varnothing 100 mm
Overload protected: 1.3 times
Connection: flange \varnothing 85 mm
Accuracy: Cl. 1.6

Diaphragm, Capsule, and Inline Diaphragm Seals for Pressure Gauges
Stainless steel, special material on request
Model: DRM



Measuring range:
0 ... +1 bar ... 0 ... +1600 bar
Filling: glycerine, paraffin- and silicone oil diverse thread and flange connection, Tri-Clamp®, DIN 11851, SMS- and IDF-Norm
Accuracy: Cl. 1.6

All Stainless Steel Bourdon Tube Pressure Gauge with Membrane Diaphragm
Stainless steel
Model: MAN-RD...DRM-600



Measuring range:
0 ... +6 bar ... 0 ... +1600 bar
Housing: \varnothing 63 mm
Connection: G / NPT-thread; M 20x1,5; M 48x3
Accuracy: Cl. 1.6

Contact Pressure Gauges with Membrane Diaphragm Seal
Stainless steel
Model: MAN-RF...M...DRM-601



Measuring range:
0 ... +6 bar ... 0 ... +1600 bar
Housing: \varnothing 100 mm
Connection: G ½ ... 1½ male thread
Accuracy: Cl. 1.6

Pressure Gauge with Diaphragm Seal DIN 11851 and Cool. Element
Stainless steel
Model: MAN-RF...MZB-711...DRM-602



Measuring range:
0 ... +1 bar ... 0 ... +40 bar
Housing: \varnothing 100 mm
Connection: DIN 11851 DN 20... 100
Accuracy: Cl. 1.6

All Stainless Steel Pressure Gauge with Membrane Diaphragm
Stainless steel
Model: MAN-RF...M1...DRM-628



Measuring range:
0 ... +1 bar ... 0 ... +40 bar
Housing: \varnothing 100, 160 mm
Connection: flange DN 25 ... 100
Accuracy: Cl. 1.6

All Stainless Steel Pressure Gauge with Membrane Diaphragm
Stainless steel
Model: MAN-RF...M1...DRM-620



Measuring range:
0 ... +1 bar ... 0 ... +40 bar
Housing: \varnothing 100, 160 mm
Connection: flange DN 25 ... 100
Accuracy: Cl. 1.6

All Stainless Steel Pressure Gauge with In-Line Diaphragm
Stainless steel
Model: MAN-RF...DRM-502



Measuring range:
+1.6 ... +40 bar ... +2.5 ... +40 bar
Connection: Tri-Clamp® ½" ... 2", hygienic connection ISO DN 15 ... 50
Accuracy: Cl. 1.6

Contact Pressure Gauge with Membrane Diaphragm Seal DIN 11851
Stainless steel
Model: MAN-RF...M21...DRM-602



Measuring range:
0 ... +1 bar ... 0 ... +40 bar
Connection: Union nut DIN 11851 DN 20 ... 100
Accuracy: Cl. 1.6



Pressure Measurement

Pressure Gauge with Membrane Diaphragm Seal, DIN 11851

Stainless steel

Model: MAN-RF...DRM-603



Measuring range:
0 ... +1 bar ... 0 ... +40 bar
Connection:
Union nut DIN 11851 DN 25... 100
Accuracy: Cl. 1.6

Pressure Gauge with Diaphragm Seal Clamp Connection

Stainless steel

Model: MAN-RF...DRM-613



Measuring range:
0 ... +2,5 bar ... 0 ... +10 bar
Housing: Ø 100 mm
Connection: Tri-Clamp® 1" ... 3"
Accuracy: Cl. 1.6

Pressure Gauges with Diaphragm for PCB Manufacture

PPH

Model: MAN...



Measuring range:
0 ... +1 bar ... 0 ... +25 bar
Connection: G 3/4 male thread
Accuracy: Cl. 1.6

Digital Pressure Gauges with Diaphragm Seals for Homogenizing Machines

Stainless steel

Model: MAN-SD...DRM-189



Measuring range:
0 ... +100 bar ... 0 ... +1 000 bar
Membrane: flush mounted
Connection: for block flange
Accuracy: Cl. 1.6

Pressure Sensor with Diaphragm Seals for Homogenizing Machines

Stainless steel

Model: SEN...DRM-189...AUF



Measuring range:
0 ... +100 bar ... 0 ... +1 000 bar
Membrane: flush mounted
t_{max} 100 °C
Connection: for block flange
Accuracy: Cl. 1.0

Digital Pressure Gauges with Diaphragm Seals for Homogenizing Machines

Stainless steel

Model: MAN-SF...DRM-189



Measuring range:
0 ... +100 bar ... 0 ... +1 000 bar
Housing: Ø 100 mm
Membrane: flush mounted
Display: 4-digit, green LED display
t_{max} 100 °C
Connection: for block flange
Accuracy: Cl. 1.0

Digital Pressure Gauge with Membrane Diaphragm Seal PVC

PVC

Model: MAN-SD...DRM-630



Measuring range:
0 ... +1,6 bar ... 0 ... +10 bar
Housing: Ø 74 mm
Connection: G 1/4, G 1/2, 1/2" NPT female
Accuracy: Cl. 1.0

Pressure Sensor with Membrane Diaphragm Seal PP

Polypropylene

Model: SEN...DRM-631



Measuring range:
0 ... +1,6 bar ... 0 ... +10 bar
Connection: G 1/4, G 1/2, 1/2" NPT female
Accuracy: Cl. 1.6

Pressure Gauge with Membrane Diaphragm Seal

PVDF

Model: MAN-RD...DRM-632



Measuring range:
0 ... +1,6 bar ... 0 ... +16 bar
Housing: Ø 63 mm
Connection: G 1/4, G 1/2, 1/2" NPT female
Accuracy: Cl. 1.6

Pressure Sensor with Diaphragm Seal and AUF

Stainless steel

Model: SEN...DRM-600

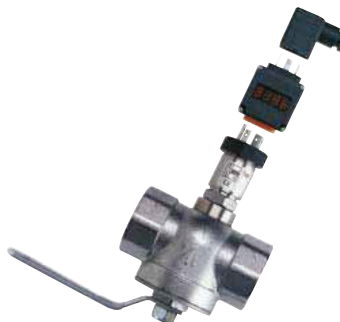


Measuring range:
0 ... +6 bar ... 0 ... +600 bar
t_{max} 70 °C
Connection:
G 1/2 ... G 1 1/2 male, stainless steel
Accuracy: Cl. 1.0

Pressure Sensor with Plug-on Display and Process Assembly

Brass, Stainless steel

Model: SEN-86 with AUF, KUG-S



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar
Overload protected: 1.5 - 2 times
Connection: G 1/2 male thread
Accuracy: Cl. 0.5; 1.0

Pressure Sensor with Ceramic Cell

Stainless steel

Model: PDA



Measuring range:
-1 ... 0 bar ... 0 ... +400 bar
Display: 3-digit LED
Connection: G 1/4, G 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: ± 0.5 - 1 % of full scale



Pressure Measurement

Pressure Transmitter
Stainless Steel, Hastelloy-C, Tantalum
Model: PAS

High Quality - Low Cost



Measuring range: -1 ... +600 bar
Power supply: 11.9 - 45 V_{DC}
Connection: 1/4" NPT female, 1/2" NPT female
Accuracy: ±0.075 % of calibrated span

Pressure Transmitter with Diaphragm Seal
St. steel, Monel, Tantalum, Hastelloy, PTFE
Model: PAS-...N

High Quality - Low Cost



Measuring range:
0 ... +250 mbar ... 0 ... +600 bar
t_{max} 200 °C
Connection: Thread or with flange (nominal size 15 ... 100)
Accuracy: ±0.075% of calibrated span + influence of diaphragm seal

Pressure Transmitter with Diaphragm Seal
St. steel, Monel, Tantalum, Hastelloy, PTFE
Model: PAS-...N

High Quality - Low Cost



Measuring range:
0 ... +250 mbar ... 0 ... +600 bar
t_{max} 350 °C
Connection: Thread or flange (nominal size 15 ... 100)
Accuracy: ±0.075% of calibrated span + influence of diaphragm seal

Pressure Sensor with Ceramic Cell and Plug-On Display AUF
Stainless Steel
Model: SEN-86 with AUF



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar
Display: 4-digit LED
Overload protected: 1.5 - 2 times
Connection: G 1/2, 1/2" NPT male thread
Accuracy: Cl. 0.5; 1.0

Pressure Sensor with Ceramic Cell and Plug-On Display AUF
Stainless Steel
Model: SEN-87 with AUF



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar
Display: 4-digit LED
Overload protected: 1.5 - 2 times
Connection: G 1/4, 1/4" NPT male thread
Accuracy: Cl. 0.5; 1.0

Pressure Sensor with Ceramic Cell
Stainless Steel
Model: SEN-96

High Quality - Low Cost



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar
Overload protected: 1,3 - 5 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: ±≤ 1 % of full scale

Pressure Sensor with Ceramic Cell
Stainless Steel
Model: SEN-98/-99



Measuring range:
-1 ... 0 bar ... 0 ... +600 bar (rel)
0 ... 1 bar ... 0 ... +25 bar (abs)
Overload protected: 1,3 - 5 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: ≤0,25...0,5% of span

Pressure Sensor Compact Piezoresistive
Stainless Steel
Model: SEN-3297



Measuring range:
0 ... +1 bar ... 0 ... +6 bar
Membrane: internal
Overload protected: 2 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: Cl. 1.0

Pressure Sensor Compact Thin Film
Stainless Steel
Model: SEN-3397



Measuring range:
0 ... +10 bar ... 0 ... +600 bar
Membrane: internal
Overload protected: 2 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: Cl. 1.0

Pressure Sensor Industrial Piezoresistive
Stainless Steel
Model: SEN-3276,-3277



Measuring range:
-1 ... 0 bar ... 0 ... +25 bar
Membrane: internal
Overload protected: 2 - 3.5 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: ± 0.25 - 0.5 % of full scale

Pressure Sensor Industrial Piezoresistive - Flush Mounted
Stainless Steel
Model: SEN-3251,-3252



Measuring range:
-1 ... 0 bar ... 0 ... +25 bar
Membrane: flush mounted
Overload protected: 2 - 3.5 times
Connection: G 1/2, G 1 male thread
Accuracy: ± 0.25 - 0.5 % of full scale

Press. Sensor Industrial Thin Film
Stainless steel
Model: SEN-3376,-3377



Measuring range:
0 ... +40 bar ... 0 ... +1000 bar
Membrane: internal
Overload protected: 1.5 - 3 times
Connection:
G 1/4, 1/2, 1/4" NPT, 1/2" NPT male thread
Accuracy: Cl. 0.25; 0.5

