



*The Source & Force
in Measurement
Technology*



PRODUCT OVERVIEW

2017

PKP Prozessmesstechnik

Your Partner for Flow,
Level, Pressure and Temperature



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■ Sight Flow Indicators

DG01

Flow indicator with or without rotor, with wiper for cleaning of sight glass

Connections: 1/4" up to 1 1/2" threaded
 Materials: brass or stainless steel 1.4305, FKM, NBR
 max. Pressure: 16 bar
 max. Temperature: 100 °C



DG02

Rotor-type flow indicator

Connections: 1/4" up to 1" threaded
 Materials: stainless steel, Klingersil C-4400, PPS
 max. Pressure: 16 bar
 max. Temperature: 200 °C



DG03

Flow indicator with turbine

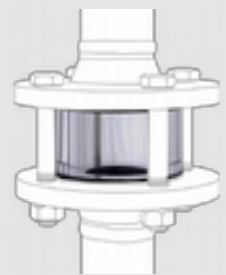
Connections: 1/4" up to 1" threaded
 Materials: brass, PA 66, NBR
 max. Pressure: 10 bar
 max. Temperature: 100 °C



DG04

Flow sight glass for installation between two flanges

Connections: DN 10 up to DN 300
 Materials: acrylic glass, borosilicate glass, quartz glass
 max. Pressure: 16 bar
 max. Temperature: 1100 °C



DG06

Sight flow indicator with flap and scale

Connections: 1/4" up to 4" threaded or flanged
 Materials: cast steel, stainless steel
 max. Pressure: 40 bar
 max. Temperature: 150 °C



DG08

Ball-type flow indicator

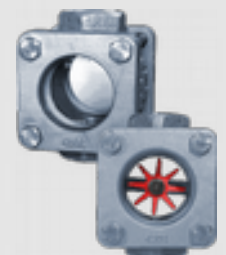
Connections: 1/4" up to 1 1/2" threaded
 Materials: stainless steel, Klingersil C-4400, PTFE
 max. Pressure: 16 bar
 max. Temperature: 200 °C



DG10

Flow sight glass with threaded connections

Connections: 1/4" up to 2" threaded
 Materials: cast iron, cast steel, stainless steel, soda lime glass, borosilicate glass, graphite
 max. Pressure: 40 bar
 max. Temperature: 280 °C



DG11

Flow sight glass with flanged connections


Connections: DN 15 up to DN 200 flanged
Materials: cast iron, cast steel, stainless steel,
soda lime glass, borosilicate glass, graphite
max. Pressure: 40 bar
max. Temperature: 280 °C



Variable Area Flowmeters


DS01

Miniature variable area flowmeter and switch

-  Connections: 1/4" up to 1 1/4" threaded
 Range: 5...60 ml/min – 60...150 l/min water
 0,2...1,3 – 200...625 NI/min air
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 16 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter


DS02

Miniature variable area flow switch

-  Connections: 1/4" up to 1" threaded
 Range: 5...60 ml/min – 60...150 l/min water
 0,6...2,2 – 200...625 NI/min air
 Materials: brass, stainless steel
 P_{max} / T_{max} : 350 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter, display


DS03

Variable area flowmeter and switch

-  Connections: 1/4" up to 1" threaded
 Range: 0,1...1,5 – 4...50 l/min water
 3...30 – 200...1600 NI/min air
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 10 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter


DS04

Variable area flowmeter and switch for high pressure applications

-  Connections: 1/4" up to 1" threaded
 Range: 0,1...1,5 – 4...50 l/min water
 1...28 – 200...1450 NI/min air
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 300 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter, display


DS05

Variable area flowmeter and switch, mounting independent

-  Connections: 1/4" up to 1 1/4" threaded
 Range: 0,2...4 – 35...250 l/min water
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 10 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter

DS06

Variable area flowmeter and switch for high pressure applications, mounting independent

-  Connections: 1/4" up to 1 1/2" threaded
 Range: 0,2...4 – 35...250 l/min water
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 300 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter, display



DS07

Viscosity compensated variable area flowmeter and switch, mounting independent



Connections: 1/4" up to 1" threaded
 Range: 0,5...1,7 – 30...90 l/min liquids up to 600 cSt
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 16 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter

DS08

Viscosity compensated variable area flowmeter and switch, for high pressure applications, mounting independent



Connections: 1/4" up to 1" threaded
 Range: 0,1...0,8 – 35...110 l/min liquids up to 600 cSt
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 350 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter, display

DS09

Angle Seat Variable Area Flow Meter

Connections: 1/2" and 1" threaded
 Range: 2,5...25, 10...100 l/min liquids up to 600 cSt
 Materials: brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 10 bar / 160 °C
 Output Signals: switch contacts, analogue transmitter, display

DS10

Variable area flowmeter with glass measuring tube

Connections: 1/4" threaded
 Range: 0,04...0,4 – 0,063...0,63 l/h water
 0,5...5 – 500...5000 NI/h air
 Materials: brass, stainless steel, FKM
 P_{max} / T_{max} : 10 bar / 100 °C
 Output Signals: up to 2 switch contacts

DS11

Plastic variable area flowmeter with glass measuring tube

Connections: 1/4" threaded
 Range: 0,25...2,5 – 16...160 l/h water
 0,5...5 – 500...5000 NI/h air
 Materials: PVDF, stainless steel, PTFE, FFKM
 P_{max} / T_{max} : 4 bar / 100 °C
 Output Signals: up to 2 switch contacts

DS12

Variable area flowmeter with glass measuring tube



Connections: 1/2" up to 2" threaded or flanged
 Range: 0,002...0,025 l/h – 1000...10000 l/h water
 0,1...1,75 NI/h – 20.000...200.000 NI/h air
 Materials: stainless steel, PP, Buna
 P_{max} / T_{max} : 16 bar / 100 °C
 Output Signal: switch contacts, optional with ATEX design





DS15

Plastic variable area flowmeter

Connections: 3/4" up to 3 1/2" threaded
 Range: 3...24 l/h – 10...50 m³/h water
 0,2...1 – 400...1500 Nm³/h air
 Materials: PVC, PA, PSU, PVDF, FKM
 P_{max} / T_{max}: 10 bar / 110 °C
 Output Signals: up to 2 switch contacts, analogue transmitter



DS20

Variable area flowmeter for low flow volumes, compact construction

Connections: 1/4" up to 1" threaded or flanged
 Range: 0,1...1 l/h – 25...250 l/h water
 4...40 NI/h – 800...8000 NI/h air
 Materials: stainless steel 1.4571
 P_{max} / T_{max}: 160 bar / 200 °C
 Output Signals: up to 2 switch contacts, analogue output
 equipable with ATEX limit switches



DS25

Variable area flowmeter

Connections: 1/2" up to 4" threaded or flanged
 Range: 2,5...26 l/h – 15...130 m³/h water
 75...750 NI/h – 180...1800 Nm³/h air
 Materials: stainless steel 1.4404
 P_{max} / T_{max}: 100 bar / 370 °C
 Output Signals: up to 2 switch contacts, analogue output
 equipable with ATEX limit switches



DS49

Variable area flow switch with hose nozzle

Connections: hose nozzle
 Range: 0,005...0,06 l/min – 1...5 l/min water
 Materials: brass, stainless steel, NBR
 P_{max} / T_{max}: 16 bar / 100 °C
 Output Signal: 1 switch contact



DS51

OEM piston type flow switch for low flow applications

Connections: 1/4" threaded or hose nozzle
 Range: 0,1...2,5 l/min water
 Materials: brass, stainless steel
 P_{max} / T_{max}: 25 bar / 100 °C
 Output Signal: 1 switch contact



DS52

Low cost miniature variable area flow switch

Connections: 1/4" and 1/2" threaded
 Range: 5...60 ml/min – 8...30 l/min water
 Materials: stainless steel
 P_{max} / T_{max}: 350 bar / 100 °C
 Output Signal: 1 switch contact



■ Paddle Type Flowmeters / Switches

DP01

Paddle-type flow switch

Connections: with T-fitting 1/4" up to 2" threaded
 with 1/2" for pipe DN 50 up to DN 200
 Range: 1,8 – 83 l/min water
 Materials: brass, stainless steel, PVC
 P_{max} / T_{max}: 25 bar / 110 °C
 Output Signal: 1 Reed contact or microswitch

DP02

Paddle-type flow switch with cable

Connections: with T-fitting 3/8" up to 2" threaded
 with 1/2" for pipe DN 50 up to DN 150
 Range: 1,7 – 600 l/min water
 Materials: brass, stainless steel, PVC
 P_{max} / T_{max}: 25 bar / 110 °C
 Output Signal: 1 Reed contact

DP03

Plastic paddle-type flow switch with cable

Connections: thread 1/2" for pipes from DN 32
 PVC T-fitting glueing socket 1/2" - 1 1/2"
 brass T-fitting 3/8" - 2" threaded
 Range: 1,5...4 l/min – 250...600 l/min water
 Materials: POM, PVC, brass, Noryl GFN3
 P_{max} / T_{max}: 10 bar / 100 °C
 Output Signal: 1 Reed contact

DP04

Paddle-type flow switch (paddle can be cut individually)

Connection: G 1/2 male, for pipe sizes DN 20... DN 200
 Range: 1,1...30 m³/h
 Materials: brass, PPE, GFN3, st. st., NBR
 P_{max} / T_{max}: 25 bar / 110 °C
 Output Signal: 1 Reed contact

DP05

Paddle bellows flow switch for liquids, with variable switching point

Connections: 3/8" up to 2" threaded or flanged
 with weld-on flange: for DN 65 up to DN 600
 Range: 1 l/min – 4500 m³/h water
 Materials: brass, stainless steel, PVC
 P_{max} / T_{max}: 16 bar / 100 °C
 Output Signal: 1 or 2 microswitches





DP06

Paddle bellows flowmeter and switch for liquids

Connections: 3/8" up to 2" threaded or flanged
 with weld-on flange: for DN 65 up to DN 600
 Range: 1 l/min – 4500 m³/h water
 Materials: brass, stainless steel, PVC
 P_{max} / T_{max}: 16 bar / 100 °C
 Output Signal: 1 or 2 microswitches



DP07

Electronic paddle bellows flowmeter, counter and switch

Connections: 3/8" up to 2" threaded or flanged
 with weld-on flange: for DN 65 up to DN 600
 Range: 1.5 l/min – 4500 m³/h water
 Materials: brass, stainless steel, PVC
 P_{max} / T_{max}: 25 bar / 100 °C
 Output Signals: 0...10 V, 4...20 mA, frequency, 2 relays



DPS10

Paddle bellows type flow switch

Connections: threaded or flanged
 DN 25 (0,6...2,1 m³/h) up to DN 300 (1...8 m/s)
 Materials: brass, stainless steel
 P_{max} / T_{max}: 30 bar / 120 °C
 Output Signal: 1 microswitch



DK04

Flap flowmeter and switch for low viscosity liquids

Connections: 1/4" up to 1 1/4" threaded
 Range: 0,4...6 – 1...100 l/min water
 Materials: PPS, brass, stainless steel, PVDF
 P_{max} / T_{max}: 100 bar / up to 150 °C
 Output Signal: pulses, 0...10 V, 4...20 mA



DK10

Flap flowmeter and switch

Connections: 1/4" up to 8" threaded or flanged
 Range: 4...15 – 120...5000 l/min water, oil
 Materials: aluminium, bronze, cast iron, cast iron nickel plated, cast steel, stainless steel, PTFE, PVC.
 seals: Buna, EPDM, FKM, PTFE, Perlast
 P_{max} / T_{max}: 200 bar / 330 °C
 Output Signal: optional 4...20 mA



Paddle Wheel / Turbine / Gear Wheel Flowmeters and Transmitters

DR03

Turbine flowmeter, all-plastic design

Connections: 1/4", 1/2", 3/4", 1 1/4" threaded
 Range: 0,1...2– 4...120 l/min water
 Materials: PVDF
 P_{max} / T_{max} : 10 bar / 85 °C
 Output Signal: transistor push-pull

DR04

Rotating vane flowmeter -switch and monitor also for high pressure

Connections: 3/8" and 1" threaded
 Range: 0,1...1,5 – 4...100 l/min water
 Materials: PPS, PVDF, brass, stainless steel
 P_{max} / T_{max} : 100 bar / 100 °C
 Output Signal: pulses, 0...10 V, 4...20 mA

DR05

Paddle wheel flow sensor and switch

Connections: 1" up to 2" threaded
 Range: 5...250 – 20...1000 l/min water
 Materials: PP, ECTFE, FKM, Ceramic
 P_{max} / T_{max} : 10 bar / 85 °C
 Output Signal: pulses, 4...20 mA

DR08

Turbine flow sensor for low viscosity liquids

Connections: 3/8" up to 2" threaded
 hose nozzle, bonded socket joint,
 welded socket, soldered joint,
 cutting ring fitting
 Range: 2...40 l/min – 0,4...25 m³/h water
 Materials: PPE, brass, stainless steel, NBR, FKM
 P_{max} / T_{max} : 300 bar / 150 °C
 Output Signal: pulses, 0(4)...20 mA, 0...10 V, limit switch
 optional with LCD display

DR12

Precision turbine flowmeter

Connections: 3/4" up to 2" threaded
 DN 10 up to DN 400 flanged
 Range: 0,055...0,275 – 800...4000 m³/h water
 Materials: stainless steel, wolfram carbide, PTFE, steel
 P_{max} / T_{max} : 400 bar / 150 °C
 Output Signal: pulses





DR15

Turbine flowmeter and counter

Connections: 1" threaded
 Range: 10...60 and 20...120 l/min water
 Materials: PP, POM, PVDF
 P_{max} / T_{max} : 10 bar / 60 °C
 Output Signal: ./.
 Display: flow and total



DR20

Paddle wheel flow transmitter

Connections: 1/2"...2" threaded with T-piece, or weld-on
 Range: 2,5...50 – 35...580 l/min or 0,5...5 m/s
 Materials: stainless steel, POM, ferrite
 P_{max} / T_{max} : 25 bar / 100 °C
 Output Signal: pulses, 4...20 mA



DR54

Plastic turbine flow meter

Connections: 1/4" threaded or hose nozzle
 Range: 4...60 – 20...300 l/h
 Materials: POM, ECTFE, Rubin, Al₂O₃, st. st., Sapphire
 P_{max} / T_{max} : 10 bar / 80 °C
 Output Signal: Push-Pull, 4...20 mA



DR56

Plastic turbine flow meter

Connections: 3/8" threaded
 Range: 20...1000 l/h
 Materials: POM, ECTFE, Rubin, Al₂O₃, st. st., Sapphire
 P_{max} / T_{max} : 10 bar / 80 °C
 Output Signal: Push-Pull, 4...20 mA



DR58

Paddle wheel flow transmitter

Connections: 3/8", 1" threaded
 Range: 50...3000 l/h, 100...5000 l/h
 Materials: brass, PA 66, stainless steel, NBR
 P_{max} / T_{max} : 10 bar / 80 °C
 Output Signal: Push-Pull, 4...20 mA



DOZ01

Flow sensor with oval rotor assembly for small flow volumes

Connections: 1/4" threaded
 Range: 8...40 – 14...80 l/h liquid media up to 200 cSt
 Materials: PP, ECTFE, stainless steel, PEEK
 P_{max} / T_{max} : 20 bar / 80 °C
 Output Signal: pulses, 4...20 mA, 2 limit switches



DZ01

Oil flowmeter (oscillating piston meter)

Connections: 1/8" up to 2" threaded or flanged
 Range: 0,5...40 – 750...30.000 l/h oil up to 500 cSt
 Materials: aluminium, brass, steel
 P_{max} / T_{max} : 40 bar / 180 °C
 Output Signal: pulses

DV01

Gear wheel flow sensor for viscous liquids

Connections: 1/4" up to 1" threaded
 Range: 0,02...4 – 1...200 l/min liquids, 20-4000 cSt
 Materials: aluminium, stainless steel, steel
 P_{max} / T_{max} : 200 bar / 80 °C
 Output Signal: pulses

DV04

High precision gear wheel flow sensor for viscous liquids

Connections: 1/8" up to 1" threaded, SAE flange 38 mm
 Range: 0,008...2 – 3...700 l/min
 liquids 20-100.000 cSt
 Materials: cast iron, stainless steel, FKM, EPDM, PTFE
 P_{max} / T_{max} : 400 bar / 220 °C
 Output Signal: pulses

DVA

Plug on display for volume sensor DV01, DV04

Mounting: 4 pin plug according EN 175301-803
 Power Supply: 12 VDC, 24 VDC
 Output Signals: pulses, 4...20 mA, or relay switch
 for flow and volume detection

DV08

Screw-spindle-type volumetric flow meter for highly viscous liquids

Connections: 1" up to 2 1/2" threaded or SAE flange
 Range: 1,4...140 – 25...2500 l/min
 liquids up to 40.000 cSt
 Materials: aluminium, steel
 P_{max} / T_{max} : 350 bar / 150 °C
 Output signal: pulses, 4...20 mA, 0...10 V, limit switch



■ Electronic Flowmeters

DM01

Compact magnetic inductive flowmeter

Connections: 1/2" up to 1" threaded
 Range: 0,05...2 – 5...250 l/min water
 Materials: PVDF/POM, stainless steel
 P_{max} / T_{max} : 10 bar / 60 °C
 Output Signal: pulses

DM04

Compact magnetic inductive flowmeter - all metal version -

Connections: 3/8" up to 1 1/4" threaded
 Range: 0,05...2 – 5...250 l/min water
 Materials: PEEK-GF30, stainless steel, EPDM, FKM
 P_{max} / T_{max} : 16 bar / 90 °C
 Output Signal: pulses

DM08

Magnetic inductive flowmeter

Connections: DN 15 up to DN 200 flanged
 Range: 0...6 – 0...1130 m³/h water
 Materials: rubber, PTFE, steel, stainless steel
 P_{max} / T_{max} : 40 bar / 180 °C
 Output Signal: pulses, 4...20 mA, limit switches, totaliser

DU06

Ultrasonic flowmeter with display

Connections: 1/2" up to 2" threaded
 Range: 0,5...80 – 8...1000 l/min water
 Materials: brass, stainless steel, FKM, EPDM
 P_{max} / T_{max} : 25 bar / 100 °C
 Output Signal: pulses, 4...20 mA, 0...10 V, switching output

DTH04

Calorimetric flow sensor in 12 mm housing

Connections: with T piece 1/2" up to 2", or cutting ring connection for universal mounting
 Range: 2...150, 3...300 cm/s velocity water
 Materials: stainless steel
 P_{max} / T_{max} : 40 bar / 100 °C
 Output Signal: frequency, 4...20 mA, 0...10 V, limit switch

DTH08

Calorimetric flow sensor

Connections: 6 up to 10 mm pipe
 Range: 0,001...2 – 0,05...10 l/min water
 Materials: stainless steel
 P_{max} / T_{max} : 10 bar / 70 °C
 Output Signal: pulses, 4...20 mA, 0...10 V, limit switch





DTL04

Calorimetric flow sensor for air - switching output

Connections: threaded or flanged
 Range: 0,1...15 m/s air
 Materials: brass nickel plated
 P_{max} / T_{max} : 10 bar / 80 °C
 Output Signal: relay or transistor

DTL06

Calorimetric flow sensor for air – analogue output

Connections: threaded or flanged
 Range: 0,1...30 m/s air
 Materials: brass nickel plated
 P_{max} / T_{max} : 10 bar / 70 °C
 Output Signal: analogue: 0...10V

DTL08

Calorimetric flow sensor for air

Connections: threaded or flanged
 Range: 0,1...30 m/s air
 Materials: brass nickel plated
 P_{max} / T_{max} : 10 bar / 80 °C
 Output Signal: 4...20 mA, 0...10 V (for flow and temperature),
 limit switch

DB04A

High precision thermal flowmeter for gases, battery-powered

Connections: 1/4", 1/2" threaded
 Range: 0,001...0,05 – 9...450 NI/min gas
 Materials: aluminium, stainless steel, FKM
 P_{max} / T_{max} : 11 bar / 50 °C
 Output Signal: limit switches

DB05

High precision thermal flowmeter and controller for gases

Connections: 1/4", 1/2" threaded
 Range: 0,5...25 Nml/min – 9...450 NI/min gas
 Materials: aluminium, PBT, FKM, stainless steel
 P_{max} / T_{max} : 11 bar / 50 °C
 Output Signal: 4...20 mA, 0...10 V, RS232 serial interface

DB50

Thermal flowmeter and counter for gases

Connections: 1/2" threaded for pipe DN 25 up to DN 600
 Ranges: 0...92,7 / 0...185 / 2...224 m/s
 136 Nm³/h... 176133 Nm³/h air
 Materials: stainless steel
 P_{max} / T_{max} : 50 bar / 110 °C
 Output Signal: 4...20 mA



DB51

Compact thermal flowmeter and counter for gases

Connections: 1/4" up to 2" threaded
Range: 0,8...90 NI/h – 2...1195 Nm³/h air
Materials: stainless steel
P_{max} / T_{max}: 40 bar / 80 °C
Output Signal: pulses, 4...20 mA



■ Float Level Switches

FS00

Float level switch

Materials: PP, PUR, Neoprene, LAPPTHERM®
 P_{max} / T_{max} : 2 bar / 95 °C
 Output Signal: NC, NO, changeover
 available with 5, 10, or 20 m cable

FS10

Magnetic float level switch vertically mounted



Connections: 1/8" up to 2" threaded or up to DN 100 flanged
 Range: 50...6000 mm
 Materials: stainless steel, PVC, PP, PVDF, PA, Titan
 P_{max} / T_{max} : 80 bar / 300 °C
 Output Signal: NC, NO, changeover

FS11

Magnetic float level switch side mounted



Connections: 3/8" up to 2" threaded, 1 1/2" up to 2" flanges
 Range: up to 3000 mm
 Materials: st. st., ECTFE, Titan, Buna, PP, PVDF
 P_{max} / T_{max} : 40 bar / 150 °C
 Output Signal: NC, NO, changeover

FS13

Miniature magnetic float level switch

Connection: 1/8" threaded
 Materials: POM/PP/NBR or stainless steel
 P_{max} / T_{max} : 10 bar / 120 °C
 Output Signal: NC

FS14

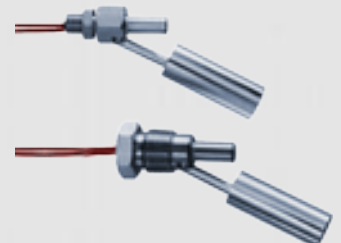
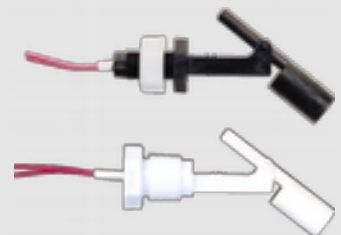
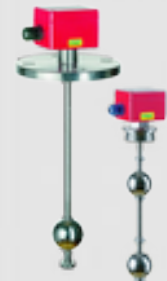
Miniature plastic float level switch horizontal mounted

Connections: 1/4", 1/2" threaded
 Materials: PP, PA
 P_{max} / T_{max} : atmospheric / 110 °C
 Output Signal: NC, NO

FS15

Miniature stainless steel level switch horizontal mounted

Connections: 1/8", 1/2" threaded
 Materials: stainless steel,
 P_{max} / T_{max} : 5 bar / 120 °C
 Output Signal: NC, NO



Electronic Level Switches

FK01

Conductive level electrode

Connections: screw M4
 Materials: stainless steel, PTFE
 P_{max} / T_{max}: atmospheric / 250 °C

FK10

Conductive level switch

Connections: 1/2" up to 2" threaded, 2" flanged
 Range: max. 2500 mm
 Materials: POM, PP, PTFE, stainless steel
 P_{max} / T_{max}: 20 bar / 100 °C
 max. 7 electrodes

FK11

Conductive level switch with cable electrodes

Connections: 1/2" up to 2" threaded
 Range: max. 15000 mm
 Materials: POM, PP, PTFE, stainless steel
 P_{max} / T_{max}: atmospheric / 90 °C
 max. 7 electrodes

FK12

Conductive level switch for food applications

Connections: 1/2" up to 1 1/2" threaded,
 DN 25 up to DN 50 screwed pipe connections
 according to DIN 11851
 Range: max. 2500 mm
 Materials: stainless steel, PP, POM, PTFE
 P_{max} / T_{max}: 20 bar / 100 °C
 max. 5 electrodes

FKE

Electronic controller for conductive level sensors

Power Supply: universal supply 24-24 VAC/DC
 Input: max. 5 conductive level sensor electrodes
 Contact Rating: 440 VAC, 8 A, 2000 VA
 direct pump control and optional 2 additional level switches

FK14


Conductive level switch with integrated relay

Connections: 1/2" up to 1 1/2" threaded,
 with weld-on connection for food applications
 Range: max. 2000 mm
 Materials: st. st., Hastelloy, Titanium, PP, POM, PTFE
 P_{max} / T_{max}: 20 bar / 85 °C
 max. 3 electrodes, suitable for direct pump control



FCS02

Capacitive level switch

 Connections: G 1/2, G 1/2 with weld in fitting
 Materials: stainless steel, PEEK
 P_{max} / T_{max} : 10 bar / 70 °C
 Output Signal: Push Pull

FUS10

Ultrasonic level switch

Connections: M18, M30 threaded, quadratic flange
 Range: max. 6000 mm
 Materials: PET/PBT, ceramic
 P_{max} / T_{max} : atmospheric / 70 °C
 Output Signal: 2 x NPN, 2 x PNP

FOS01


Optical level switch

Connections: M16x1, 1/2" threaded
 Materials: stainless steel, quartz glass
 P_{max} / T_{max} : 50 bar / 140 °C
 Output Signal: PNP Open Collector

■ Level Switches for Bulk Materials


FF03

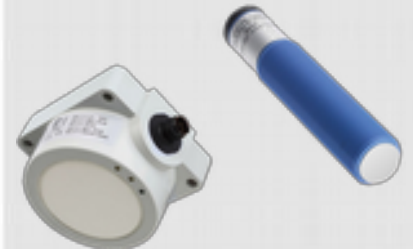
Rotary blade level switch

 Connections: 1" up to 2" threaded, DN 32, DN 100 flanged
 Materials: aluminium, stainless steel
 P_{max} / T_{max} : 25 bar / 350 °C
 bulk density: 0,01 up to 2 t/m³
 Output Signal: microswitch 2 A, 250 VAC

FF04

Membrane level switch

 Connections: flanged
 Materials: aluminium, stainless steel, Neoprene, FKM
 P_{max} / T_{max} : atmospheric / 200 °C
 Output Signal: relay with high contact rating



■ Float Level Indicators / Transmitters

FN06

Magnetic float level transmitter – Reed chain

Connections: 3/8" up to 2" threaded or up to DN 200 flanged

 Range: 50...6000 mm

Materials: stainless steel, PVC, PP, PVDF,
E-CTFE, PTFE

P_{max} / T_{max}: 40 bar / 250 °C

Output Signal: Reed chain, 4...20 mA

FM02

Magnetic float level transmitter- magnetostrictive

Connections: 1 1/2", 2" threaded or up to DN 100 flanged

Range: 100...6000 mm

Material: stainless steel

P_{max} / T_{max}: 100 bar / 185 °C

Output Signal: 4...20 mA, HART®

FB06

Bypass level indicator

Connections: 1/2" up to 4" threaded or flanged

 Range: 150...6000 mm

Materials: stainless steel, titanium, Hastelloy,
PP, PVDF

P_{max} / T_{max}: 400 bar / 450 °C

Output Signal: limit switches, level transmitter (optional)



Electronic Level Measurement

FUM10

Ultrasonic level transmitter

Connections: M18, M30 threaded, quadratic flange
Range: max. 6000 mm
Materials: PET/PBT, ceramic
 P_{\max} / T_{\max} : atmospheric / 70 °C
Output Signal: 4...20 mA, 0...10 V

FP01

Potentiometric level transmitter for conductive liquids

Connections: 1/4" ... 2" threaded or up to DN 100 flanged
Range: 100...6000 mm
Materials: stainless steel, PEEK, FFKM
 P_{\max} / T_{\max} : 100 bar / 200 °C
Output Signal: 4...20 mA

FT01

Hydrostatic deep well level transmitter

Range: 0..1 – 0...250 m WC
Materials: stainless steel, PA
 P_{\max} / T_{\max} : 32 bar / 80 °C
Output Signal: 4...20 mA, 0...10 V



Pressure Gauges

PMR02

Bourdon tube pressure gauge - Mini

Connections: 1/4" bottom or back threaded
Materials: brass, steel, stainless steel
Range: -1...0 – 0...1000 bar
Housing Diameter: 60 mm
max. Temperature: 100 °C
Optional glycerine filled

PMR04

Bourdon tube pressure gauge

Connections: 1/4", 1/2" bottom or back threaded, flanged
Materials: brass, stainless steel
Range: -1000...0 mbar – 0...1600 bar
Housing Diameter: 100, 160, 250 mm
max. Temperature: 200 °C
Output Signal: up to 4 limit switches, ATEX certified



PMR06

High precision bourdon tube pressure gauge

Connections: 1/4", 1/2" bottom or back threaded, flanged
Materials: brass, stainless steel
Range: -1...0 – 0...1600 bar
Housing Diameter: 160, 250 mm
max. Temperature: 100 °C
Optional glycerine filled

PMK04

Capsule element pressure gauge for gases

Connections: 1/4", 1/2" bottom or back threaded
Materials: brass, stainless steel
Range: -25...+15 – 0...600 mbar
Housing Diameter: 60, 100, 160 mm
max. Temperature: 100 °C
Optional: glycerine filled, free of oil and grease for oxygen use

PMP04

Diaphragm pressure gauge

Connections: 1/2" threaded, DN 25, DN 50, DN 64 flanged
Materials: aluminium, brass, stainless steel
Range: -1200...0 bar – 0...400 bar
Housing Diameter: 100, 160, 250 mm
max. Temperature: 100 °C
Optional: glycerine filled, free of oil and grease for oxygen use, PTFE coating



PDR02

Double bourdon tube differential pressure gauge

Connections: 1/4, 3/8", 1/2" threaded
Materials: stainless steel
Range: -1...0 – 0...1600 bar
Housing Diameter: 100, 160 mm
max. Temperature: 100 °C

PDR04

Differential pressure gauge with double linked bourdon tubes

Connections: 1/4, 3/8", 1/2" threaded
Materials: stainless steel
Range: 0...0,6 – 0...16 bar
Housing Diameter: 100, 160 mm
max. Temperature: 100 °C
Output Signal: up to 2 limit switches, ATEX certified



PDK01

Differential pressure gauge with capsule element

Connections: 2 x hose connection, Ø 6 mm
Materials: stainless steel
Range: -400... 0 – 0...600 mbar
Housing Diameter: 100, 160 mm
max. Temperature: 100 °C

PDP02

Differential pressure gauge with double diaphragm system

Connections: 1/4, 3/8", 1/2" threaded
Materials: stainless steel
Range: 0...0,6 – 0...16 bar
Housing Diameter: 100, 160 mm
max. Temperature: 80 °C

PMD01

digital pressure gauge with LCD-display, battery powered

Connections: 1/4" threaded
Materials: stainless steel, plastic housing
Range: -1...0 – 0...700 bar
Housing Diameter: 100 mm
max. Temperature: 80 °C

PMD02

Digital pressure gauge

Connections: 1/4", 1/2" threaded
Materials: ceramic, aluminium, stainless steel
Range: 0...2,5 mbar – 0...2500 bar
Housing Diameter: 100 mm
max. Temperature: up to 80 °C
Output Signal: 0(4)...20 mA, 0...10V, limit switches
Optional: RS232, RS485, HART, CAN-Bus, Profibus, data logger,
free of oil and grease for oxygen use, battery operated



Pressure Switches, Sensors and Digital Measuring Devices

PS00

Low cost pressure switch

Connections: 1/4" threaded
Materials: steel zinc plated
Range: 0,2...2 – 30...320 bar
max. Temperature: 80 °C
Output Signal: up to 4 A / 250 VAC

PS05

Pressure switch for non aggressive liquids and gases

Connections: 1/4" female, 1/2" male threaded
Materials: aluminium, brass, stainless steel, NBR
Range: 1...16 mbar – 16...63 bar
max. Temperature: 70 °C
Output Signal: up to 8 A / 250 VAC

PS06

Vacuum pressure switch

Connections: 1/4" female, 1/2" male threaded
Materials: aluminium, brass, stainless steel, NBR
Range: -15...+6 mbar – -1...+0,1 bar
max. Temperature: 70 °C
Output Signal: up to 8 A / 250 VAC

PS08

All stainless steel pressure switch for aggressive media

Connections: 1/4" female, 1/2" male threaded
Materials: aluminium, stainless steel
Range: -250...+100 mbar – 3...16 bar
max. Temperature: 70 °C
Output Signal: up to 8 A / 250 VAC

PS12

Miniature electronic pressure switch

Connections: 1/4" threaded, M10x1, M12x1,5
Materials: aluminium, brass, stainless steel
Range: -0,9...-0,05 – 30...600 bar
max. Temperature: 80 °C
Output Signal: up to 100 A / 30 VDC





PS20

Electronic pressure switch

Connections: 1/4", 1/2" threaded
 Materials: stainless steel, PBT GF30, PMMA
 Range: -1...0 – 0...1000 bar
 max. Temperature: 100 °C
 Output Signal: relay, changeover

PSA20

Electronic pressure sensor with LED-display (optional)

Connections: 1/4" 1/2" threaded
 Materials: stainless steel, PBT GF30, PC
 Range: -1...0 – 0...1000 bar
 max. Temperature: 80 °C
 Output Signal: 4...20 mA, up to 2 limit contacts

PSA21

Front flush electronic pressure sensor with LED-display

Connections: 1/2", 1" threaded
 Materials: stainless steel, PBT GF30, PC
 Range: -1...+0,6 – 0...600 bar
 max. Temperature: 80 °C
 Output Signal: 4...20 mA, up to 2 limit contacts

PUM04

Pressure transmitter of stainless steel with ceramic membrane

Connections: G 1/2 B male, G 3/4 B front flush, G 1/4 female
 Materials: stainless steel, ceramic
 Range: -1...0 – 0...400 bar
 max. Temperature: 80 °C
 Output Signal: 4...20 mA 2 wire, 0...10 V 3 wire

PUM06

High precision pressure transmitter

Connections: G 1/2 B male, G 3/4 B front flush, G 1/4 female
 Materials: stainless steel
 Range: -1...0 – 0...2500 bar
 max. Temperature: up to 80 °C
 Output Signal: 4...20 mA 2 wire, 0...10 V 3 wire

PUM50

OEM Miniature pressure transmitter

Connections: 1/4", 1/2" threaded
 Materials: stainless steel
 Range: 0...1 – 0...600 bar
 max. Temperature: 80 °C
 Output Signal: 4...20 mA, 0...10 V



Temperature Measurement

TZ04

Dial thermometer



Connections: 1/2" up to 1" threaded
Materials: stainless steel
Range: -200...50 to 0...800 °C
Housing diameter: 63, 80, 100, 160, 250 mm
max. Pressure: 25 bar
Output Signal: up to 4 limit switches, ATEX certified

TEM01

Sheathed temperature probes with cable connection

Connections: 1/4", 1/2", M10x1 threaded compression fitting
Materials: stainless steel, Inconel 600
Range: -190...+1200 °C
max. Pressure: 25 bar
Output Signal: Pt100, thermocouple type K

TFK02

Compact resistance temperature sensor (Pt100)

Connections: 1/4" up to 1/2" threaded, for squeezing rings
Materials: stainless steel
Range: -50...+200 to 200...600 °C
max. Pressure: 100 bar
Output Signal: Pt100, 4...20 mA, 0...10 V

TFK03

Compact resistance thermometer (Pt100) with M12x1 connector

Connections: 1/4" up to 1/2" threaded, for squeezing rings
Materials: stainless steel
Range: -50...+200 to 200...600 °C
max. Pressure: 100 bar
Output Signal: Pt100, 4...20 mA, 0...10 V

TF04

Temperature probes with installation fitting according DIN 43770

Connections: 1/2", 1" threaded, flanged or weld-on
Materials: stainless steel
Range: -50 – 1232 °C
max. Pressure: 40 bar
Output Signal: Pt100, Pt500, Pt1000, thermocouple type K, J, R, S, 4...20 mA





TS20

Electronic temperature limit switch, Pt100

Connections: 1/4" up to 1" threaded
Materials: stainless steel, PBT GF30, PMMA
Range: -50...+200 °C
max. Pressure: 25 bar
Output Signal: relay, changeover

TSA20

Electronic temperature sensor with LED-display (optional)

Connections: 1/4" up to 1" threaded
Materials: stainless steel, PBT GF30, PC
Range: -50...+250 °C
max. Pressure: 25 bar
Output Signal: 4...20 mA, up to 2 limit contacts

TR02

Temperature transmitter for ambient air

Range: -20 – +150 °C, 8 selectable standard ranges
power supply: 24 VAC/DC or loop powered
max. Pressure: atmospheric
Output Signal: Pt1000, 0...10 V or 4...20 mA



Mechanical Accessories

SB02

Flow limiter

Connections: 1/2", 3/4" threaded
 Materials: brass, stainless steel
 Range: 1 – 30 l/min at 2...10 bar
 P_{max} / T_{max} : 64 bar / 200 °C

SB03

Flow limiter for large flow rate

Connections: 3/4" up to 3" threaded
 Materials: brass, stainless steel
 Range: 1 – 520 l/min at 2...10 bar
 P_{max} / T_{max} : 16 bar / 100 °C

SB04

Flow limiter flange mounted

Connections: DN 40 up to DN 100 (EN and ASME)
 Materials: stainless steel
 Range: min 2 l/min, max 420 l/min
 P_{max} / T_{max} : 16 bar / 200 °C

SF00

Y-Strainer

Connections: 1/4" up to 4" threaded
 Materials: brass, stainless steel
 Filter: 1 mm to 0,25 mm
 P_{max} / T_{max} : 40 bar / 180 °C

SF01

Y-Strainer with magnetic separator

Connections: 1/2" up to 3" threaded
 Materials: red bronze, brass, stainless steel
 Filter: 1 mm to 0,25 mm
 P_{max} / T_{max} : 40 bar / 180 °C

SF02

Fine filter for liquids and gases

Connections: 1/8" up to 3/4" threaded
 Materials: PP, PA
 Filter: 5 – 300 µm
 P_{max} / T_{max} : 10 bar / 50 °C

SNV01

Needle valve

Connections: 1/8" up to 2" threaded
 Materials: brass, steel, NBR, PTFE
 P_{max} / T_{max} : 200 bar / 350 °C





SNV02

Stainless steel needle valve for high pressure applications

Connections: 1/8" up to 2" threaded
 Materials: stainless steel, PTFE, graphite
 P_{max} / T_{max}: 400 bar / 250 °C

SKG01

Ball valve manually operated

Connections: 1/4" up to 4" threaded
 Materials: brass, stainless steel, PTFE, FKM
 P_{max} / T_{max}: 60 bar / 180 °C
 2/2- and 3/2-way version available

SKG02

Ball valve with flange connection

Connections: DN 15 up to DN 200" flanged
 Materials: cast iron, steel, stainless steel, PTFE, FKM
 P_{max} / T_{max}: 40 bar / 180 °C

SKP

Pneumatic actuator for ball valves

For all ball valves type SKG01 and SKG02
 Materials: aluminium housing, stainless steel stem
 max. Temperature: 95 °C
 single acting or double acting, signal connection for limit switch and position controller

SKE

Electric actuator for ball valves

For all ball valves type SKG01 and SKG02
 Materials: aluminium housing, stainless steel stem
 max. Temperature: 70 °C
 24 VDC and 230 VAC versions, emergency manual override,
 signal connection for limit switch and position controller, optical position indicator



Digital Displays

AZ01

Self-supplying plug on indicator for 4-20 mA transmitter

Display: LED, 4-digit
Mounting: 4 pin plug according DIN 43650
max. Temperature: 70 °C
Output Signal: up to 2 limit contacts (optional)

AZ05

Analogue transmitter with LCD-Display for flowmeter

Display: LCD, Signal LED
Power supply: 18...30 VDC
max. Temperature: 70 °C
Output Signal: 4...20 mA or 0...10 V, 2 switching outputs

AZ10

Digital display and control unit

Mounting: panel mounted
Power Supply: 11..36 VDC, 24 VAC, 85...230 VAC
Input Signals: pulses/frequency, 0(4)...20 mA, 0...10 V;
Pt100, thermocouples Output Signals:
0(4)...20 mA, 0..10 V, up to 4 limit switches,
relay or transistor, serial interfaces,

AZ20

Digital display and control unit, 5 digits

Mounting: panel mounted 96x48, 96x24 mm housing
Power Supply: 10..30 VDC, 230 VAC
max. Temperature: 50 °C
Input Signals: pulses/frequency, 0(4)...20 mA, 0...10 V;
Pt100, thermocouples, potentiometer Output
Signals: 0(4)...20 mA, 0..10 V, up to 8 alarm switches
serial interfaces, batch counter

AZ30

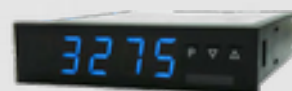
Digital display for current loop operation, 4 digits

Mounting: panel mounted 96x48, 96x24, 48x24 mm
max. Temperature: 60 °C
Input Signals: 4...20 mA
Output Signals: 2 FotoMOSFET (optional)

AZ40

Digital display and control unit in IP65 field housing

Mounting: for field operation
Power Supply: 24...230 VAC/DC universal power supply
Input Signals: pulses/frequency, 0(4)...20 mA, 0...10 V;
hydrostatic level sensors
Output Signals: 0(4)...20 mA, 0(2)..10 V, up to 2 relay limit
switches (optional)





AZ50

Multifunctional display and control unit in field housing

Mounting: for field operation, IP65
Power Supply: 24 VDC +/- 50 %
Add. Function: Totalizer
Input Signals: pulses/frequency, 0(4)...20 mA, 0...10 V;
Output Signals: 0(4)...20 mA, 0(2)..10 V and
2 limit switches

AZ90

Graphical Universal panel display

Mounting: panel mounted 96x48
Power Supply: 24 VDC, 24 VAC, 115 VAC, 230 VAC
Input Signals: 0(4)...20 mA, 0...10 V;
Pt100, thermocouples, potentiometer Output
Signals: 0(4)...20 mA, 0...10 V 2 relay limit switches,
totaliser

AZ260

Digital display unit and counter for pulse input

Power Supply: 24 VDC battery buffered
Display: 8 digit display
Inputs: 2 independent inputs for rate and counter
Output Signals: pulses

SGIA

General purpose 4 digit display and counter

Power Supply: 9...28 VDC
Input Signals: pulses, voltage, current, temperature sensors
Output Signals: 2 transistor limit switches,
serial interface RS485



Electronic Accessories

MSR01

Multifunction relay

Power Supply: 24 VDC, 24 VAC, 115 VAC, 230 VAC

max. Temperature: 70 °C

Input Signals: up to 2 contacts,
integrated control voltage supply

Output Signal: Relay, changeover, 250 VAC, 8 A
sensor supply, monostable and bistable version available,
suitable for direct pump control



SKF

Switch amplifier

Power supply: 24 VDC, 115 VAC, 230 VAC

Contact Rating: up to 250 VAC, 4 A

max. Temperature: 60 °C

Input Signals: up to 2 contacts, integrated control
voltage supply according to NAMUR

Output Signal: Relay, changeover, 253 VAC, 4 A
ATEX certified Ex II GD EEx ia IIC



IFMA

Frequency-analogue converter

Power Supply: 9...32 VDC, 85...230 VAC

max. Temperature: 50 °C

Input Signals: 0...1 Hz – 0...25 kHz
for all common signals like PNP/NPN OC,
TTL, CMOS, relays

Output Signals: 0(4)...20 mA, 0...(5)10 V



SM12

M12 Plug connector with PVC cable

Materials: PVC cable, contact surface: gold-plated

Form: female connection straight or angled

Length/Pole: 2, 5, 10 m / 4-, 5-, 8-pole

max. Temperature: 85°C



The “Source & Force” in Measuring Technology

FLOW

- Sight glasses with rotor or ball
- Variable area and piston type flowmeters and switches
- Paddle type flowmeters and switches
- Turbine wheel and rotating vane flowmeters
- Gear wheel flow sensors and counters
- Magnetic inductive flowmeters
- Ultrasonic flowmeters
- Calorimetric flowmeters
- Vortex flowmeters



LEVEL

- Float level switches
- Magnetic level switches for horizontal and vertical position
- Conductive level switches
- Optoelectronic level switches
- Level switches for bulk material
- Level transmitters with floats
- Bypass level indicators
- Potentiometric level sensors
- Hydrostatic level sensors



PRESSURE

- Pressure gauges
- Differential pressure gauges
- Pressure transmitters
- Pressure switches



TEMPERATURE

- Dial Thermometer, N₂ filled
- Temperature sensors Pt100, Pt1000 thermocouples
- Thermometers

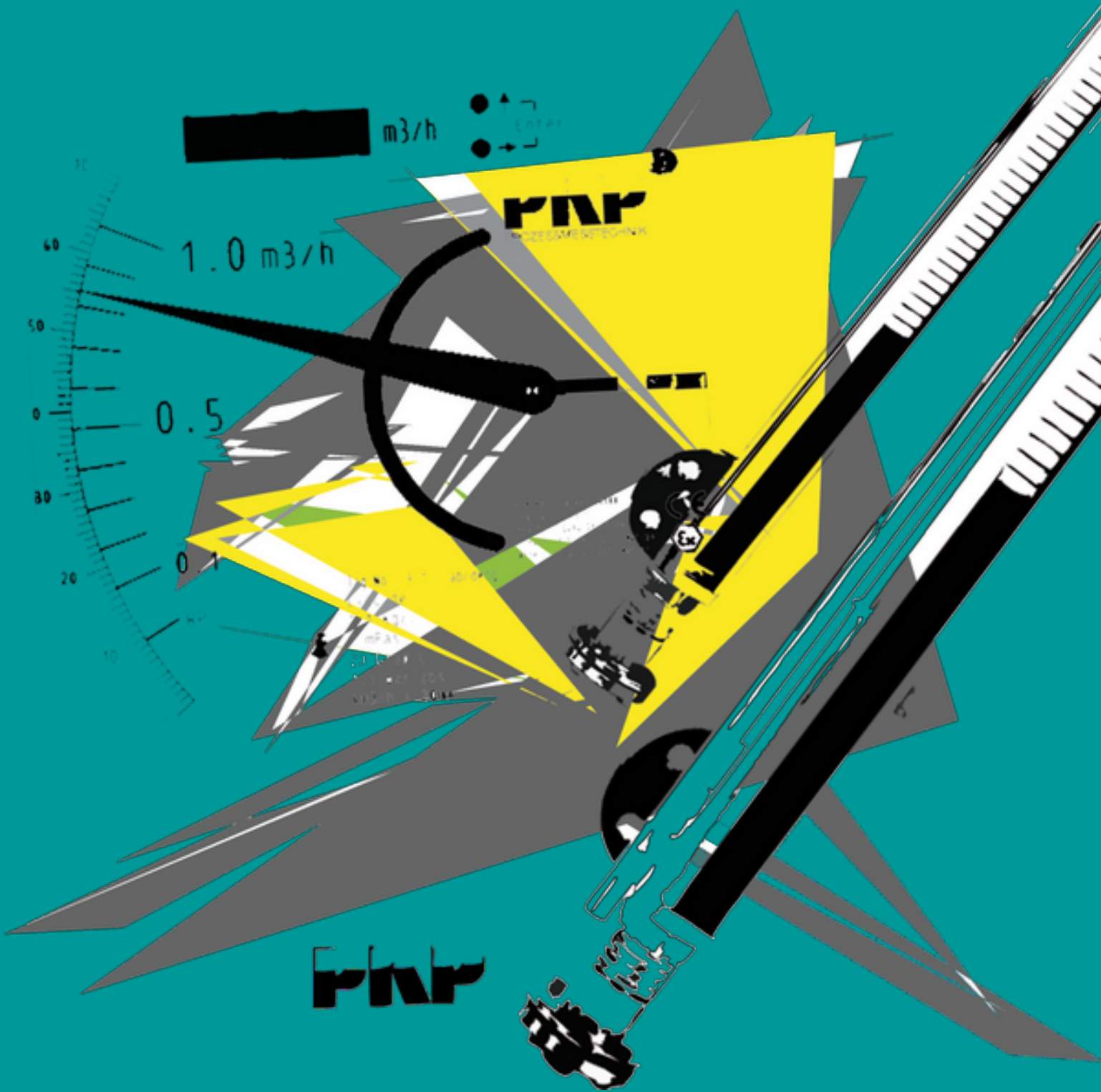


ACCESSORIES

- Valves, strainers, flow limiters,
- Relays, signal converters, isolating amplifier
- Frequency / analogue converter
- Plug connectors with cable
- Electronic display and control units



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