Flowmeters with Float

Measurement Range: 1.5 - 60,000 l/hours
Body Material: Trogamit, Polisulphone, Glass
Pressure Resistance: 15 Bar
Temperature Resistance: -10 °C - 100 °C
Connection: DN 15 – DN 80 (Screwed, Flanged, Pipe Type)
Application Types: Air, Water, Limpid Fluid, Acid, Base, Gas

*On request, supplied with switch and 4-20 mA output.

Flowmeters with Flow Regulator and Float

Measurement Range: 0.1 l/min – 30 Nm3/saat
Body Material: Trogamit, Polisulphone, Glass, Acrylic
Pressure Resistance: 15 Bar
Temperature Resistance: -10 °C - 80 °C
Connection: 1/8”, 1/2” Screwed
Application Types: Air, Water, Limpid Fluid, Acid, Base, Gas

Flowmeter with Switch

Measurement Range: 0.1 l/hour – 3000 Nl/hour
Body Material: Glass (stainless protection box)
Pressure Resistance: 15 Bar
Temperature Resistance: -10 °C - 150 °C
Connection: 1/4”, 3/4”
Output: Switch Output
Application Types: Air, Water, Limpid Fluid, Acid, Base, Gas

Flowmeters for Lubrication Systems

Measurement Range: 0.1 l/min – 35 Nl/min
Body Material: AISI 316
Pressure Resistance: 30 Bar
Temperature Resistance: 120 °C
Connection: 1”
Application Types: Lubrication systems
Flowmeters with High Flow Float

- **Measurement Range**: 1.6 – 130 m³/hour
- **Body Material**: Glass, Stainless Steel, PVC, PP, PVDF, Viton
- **Pressure Resistance**: 10 Bar
- **Temperature Resistance**: 100 °C
- **Connection**: DN 10 – DN 200
- **Application Types**: Air, Water, Limpid Fluid, Acid, Base, Gas

*On request, it is supplied with switch output.

Multitube Flowmeters (Flow Regulation Valves)

- **Flowmeter Quantity**: 1 – 12
- **Measurement Range**: 2 ml/min – 2.5 l/min. For Water, 0.1 NI/Sec. – 90 NI/Sec. For Air
- **Body Material**: Acrylic
- **Pressure Resistance**: 20 Bar
- **Temperature Resistance**: 75 °C
- **Connection**: 1/4”
- **Sensitivity**: 5 %
- **Application Types**: CO₂ Control in Greenhouses, Water, Air, Limpid Fluid, Base, Gas

Metal Tube Variable Area Flowmeters:

- **Measurement Range**: 2.5 l/hour – 180 m³/hour For Water, 400 NI/hour – 2600 Nm³/hour For Air
- **Body Material**: AISI 316 SS
- **Pressure Resistance**: 150 – 400 Bar
- **Temperature Resistance**: -160°C to 150 °C / 400°C
- **Connection**: DN 15 – DN 150 (Screwed – Flanged)
- **Sensitivity**: 2.5% - 1.6%
- **Application Types**: Water, Air, Acid, Base, Oil, Gas

*Limit Switch, Analog Output Signal(4-20 mA) and totalizer option exists. (Instant and total flow)

Metal Tube Variable Area Flowmeters:

- **Measurement Range**: 0.1 l/hour - 1000 l/hour For Water
- **Body Material**: AISI 316 SS
- **Pressure Resistance**: 40 Bar
- **Temperature Resistance**: -20°C - 200 °C
- **Connection**: 1/4” - 3/4”
- **Sensitivity**: 4%
- **Application Types**: Water, Air, Acid, Base, Oil, Gas

* Analog Output(4-20 mA) option exists.

www.sms-tork.com

export@sms-tork.com +90 (216) 364 34 05
Target Flowmeters

Measurement Range: 1 m³/hour - 1600 m³/hour
   For Water
Body Material: AISI 316 SS / Plastic Covered Steel
Pressure Resistance: 10 Bar – 40 Bar
Temperature Resistance: -20°C - 130 °C / 180 °C
Connection: DN 40 – DN 500
Sensitivity: 2.5% - 4%
Application Types: Water, Acid, Base, Oil,
   Fluid containing particles in it.

*Limit Switch, Analog Output Signal(4-20mA) and totalizer option exists. (Instant and total flow)

Volumetric Counters

Measurement Range: 10 lt/hour – 60 m³/hour
Body Material: AISI 316 SS
Pressure Resistance: 10 – 150 Bar
Temperature Resistance: -20 °C - 130 °C
Connection: DN 10 – DN 100
Sensitivity: 0.8%
Application Types: Water, Acid, Base, Oil

* Analog Output Signal(4-20mA) and totalizer option exists. (Instant and total flow)

TORK-RR Type Flowmeter

Measurement Range: 0.1 – 100 lt./min.
Body Material: PVD / Bras/Stainless Steel / PPS
Pressure Resistance: PN 16 / PN 100
Temperature Resistance: 60 - 100 °C
Connection: 3/8” - 1”
Sensitivity: 3%
Output Signal: Pulse
Application Types: Water, Acid, Base, Oil

* Digital Indicator and 4-20mA options exist. (Instant and total flow)

TORK-VHZ Type Flowmeters

Measurement Range: 0.02 - 150 lt/min
Body Material: Aluminium / Stainless Steel
Pressure Resistance: PN 100 / PN 200
Temperature Resistance: 80 - 120 °C
Connection: 1/8”- 1/4” – 3/4” - 1”
Sensitivity: 3%
Output Signal: Pulse
Application Types: Water, Acid, Base, Oil

* Digital Indicator and 4-20mA options exist
   (Instant and total flow)

For high viscosity fluids

www.sms-tork.com  export@sms-tork.com  +90 (216) 364 34 05
FLOW MEASUREMENT AND CONTROL

Screw Flowmeter

- **Measurement Range**: 1.4-2500 L/min
- **Connection**: 1” ... 2 1/2”
- **Body Material**: Aluminium, Döküm, çelik, paslanmaz çelik
- **Screw**: Çelik, Stainless Steel
- **Pressure Resistance**: 160 bar, 350 bar
- **Temperature Resistance**: -25 ... +80 °C; Max. 150 °C
- **Output Signal**: PNP, NPN, 4-20 mA, 0-10 VDC, frekans, switch
- **Sensitivity**: % 1
- **Application Types**: Water, oil, viscosic liquids

*Digital Indicator and 4-20mA options exist. (Instant and total flow)*

TORK-RT Type Flowmeter

- **Measurement Range**: 0.11 - 68 m³/hour
- **Body Material**: Stainless Steel
- **Pressure Resistance**: PN 250
- **Temperature Resistance**: 85 °C
- **Connection**: 1/2” – 2”
- **Sensitivity**: % 1
- **Output Signal**: Pulse
- **Application Types**: Water, Acid, Base, Oil

* Digital Indicator and 4-20mA options exist. (Instant and total flow)*

Turbine Flowmeter with Stainless Body

- **Measurement Range**: 300 l/hour – 1100 m³/hour
  
  For water
- **Body Material**: AISI 316 SS, AISI-420
- **Pressure Resistance**: 16 – 400 Bar
- **Temperature Resistance**: -20 °C - 130 °C
- **Connection**: DN 15 – DN 150
- **Sensitivity**: 0.5 %
- **Output Signal**: 4-20 Ma Analog Output and Pulse
  
  Output (Instant and total flow)
- **Application Types**: Water, Acid, Base, Oil,
  
  Petrochemistry

Submersible Type Paddle Flowmeters

- **Measurement Range**: 0.15-8 m/s
- **Connection**: DN15 ... DN600
- **Body Material**: PVC, PTFE, SS316, Prinç, ABS
- **Paddles**: ECTFE, SS316
- **Pressure Resistance**: 10 bar ... 25bar
- **Temperature Resistance**: 70 - 120 °C
- **Output Signal**: NPN, 4-20 mA
- **Sensitivity**: % 0.75
- **Application Types**: Water, alcohol, non-viscosic liquids,
  
  aggresiveve liquids

*Digital Indicator and 4-20mA options exist. (Instant and total flow)*
FLOW MEASUREMENT AND CONTROL

**Turbine Type Flowmeters**

- Measurement Range: 0.15 - 473 l/min su
- Connection: 6mm; 1/2” … 2”
- Body Material: ABS plastic, SS304, PVC
- Pressure Resistance: 10 bar ... 63 bar
- Temperature Resistance: -40 ... +120 °C
- Output Signal: NPN, 4-20 mA, RS485, HART
- Sensitivity: % 1, optional %0.5-%0.2
- Application Types: Water, alcohol, non-viscose liquids, aggressive liquids

*Digital Indicator and 4-20mA options exist. (Instant and total flow)*

**VISION 2000 Flowmeters (Low Flow Rate Measurement)**

- Measurement Range: 0.1 l/min – 35 l/min (6 different measurement range options exist)
- Connection: G 3/8” or 3/8 NPT
- Pressure Resistance: 25 Bar
- Sensitivity: 3%
- Temperature Resistance: -20 °C – 100 °C
- Supply Voltage: 5 - 24 VDC
- Output: Pulse
- Application Types: Flow systems with low flow rate.

**Digital Flow Indicators**

- Body Material: Plastic
- Input: 0-5V DC, 0-10VDC, 4-20mA, pulse (NPN, PNP, Push-Pull), PT100, mV
- Output: 4-20mA, pulse, relay
- Communication: RS485
- Calculation: IAPWS-IF97 (BAB216)
- Indicator: LCD, LED

**Electromagnetic Flowmeter**

- Measurement Range: 10 l/hour – 6000 m³/hour
- Body Material: AISI 316 SS, Hastelloy C, Titanium
- Pressure Resistance: PN 16 – PN 250
- Temperature Resistance: -20 °C – 130 °C
- Connection: DN 3 – DN 500
- Sensitivity: 0.5 %
- Output Signal Indicator: 4-20 mA Analog Output
- Indicator: LCD Screen with Instant and Total Flow Indicator
- Application Types: Water, Acid, Base, Oil, Nutrient

www.sms-tork.com  export@sms-tork.com  +90 (216) 364 34 05
**Ultrasonic Flowmeter**

- **Measurement Range**: 0.2-12 m/s
- **Connection**: DN80 ... DN2000
- **Material**: ABS plastic indicator, anodised aluminium sensor
- **Supply**: 85-265 VAC
- **Sensitivity**: ± 1.5 R.V. ±0.02 m/s
- **Output Signal**: 4-20 mA, relay
- **Cable**: 5m, 6m ... 50m

**Portable Ultrasonic Flowmeter**

- **Measurement Range**: 0.01-12 m/s
- **Connection**: DN10 ... DN6000
- **Material**: ABS plastic indicator, plastic sensor
- **Temperature Resistance**: -40 ... +120 °C, max. 175 °C
- **Sensitivity**: ± 1
- **Output**: RS232
- **Cable**: 5m
- **Data logger**: 2000 datas

**Ultrasonic Flowmeters**

- **Measurement Diameter**: DN 10 – DN 3300
- **Output Signal**: 4-20 mA Analog Signal (Instant and Total Flow)
- **Switch**: Output of switch is based on the two values which were determined by user.
- **Application Types**: Water, Acid, Base, Oil, Air, Gas

Ultrasonic flowmeters which have portable and steady types; provide user to measure flow rate of various dimensions (DN10-DN3300) of line, by one tool. During installation, it does not require any flow cut as there is no need to put any connection material to the line. It provides practical and quick measurement. In such places like open channels and river beds, it provides easy measurement. It has ex-proof models.

---

[Images and diagrams related to ultrasonic flowmeters and portable measurement devices are shown.]
**Compact Orifice Flowmeter**

- **Connection**: DN15 ... DN500
- **Material**: SS304 body and connection
- **Temperature Resistance**: +200 °C, max. 450 °C
- **Pressure Resistance**: 137 bar, max. 350 bar
- **Accuracy**: % 1
- **Output**: 4-20mA + HART, relay
- **Montage Position**: Horizontal and Vertical (bottom to top)
- **Application Types**: Liquid, gas, steam
- **Option**: Ex-Proof

**TORK-CRG/CRE Type Flow Switch**

- **Measurement Range**: 0.2 – 165.7 m³/hour
- **Body Material**: Brass - Stainless Steel
- **Pressure Resistance**: 11 Bar - 30 Bar
- **Temperature Resistance**: 120 °C
- **Connection**: 1”
- **Available Routes**: DN 25...DN 200
- **Switch**: SPDT Switch (230 V AC 1A 50 VA)
- **Application Types**: Water, Acid, Base, Oil, Air

**TORK-UR 1 Type Flow Switch**

- **Measurement Range**: 2.5 – 53 ltr/min
- **Body Material**: Brass - Stainless Steel
- **Pressure Resistance**: PN 25
- **Temperature Resistance**: 110 °C
- **Connection**: 3/8” ... 2”
- **Switch**: Reed Switch (230 V AC 1A 50 VA)
- **Application Types**: Water, Acid, Base, Oil

**TORK-UR Type Flow Switch**

- **Measurement Range**: 23 - 118 ltr/min
- **Body Material**: Brass - Stainless Steel
- **Pressure Resistance**: PN 25
- **Temperature Resistance**: 110 °C
- **Connection**: 1/2” - 1 1/4”
- **Applicable Lines**: DN 30 – DN 80
- **Switch**: Reed Switch (230 V AC 1A 50 VA)
- **Application Types**: Water, Acid, Base, Oil
### TORK-HD Type Flow Switch

- **Measurement Range**: 0.5 - 60 l/min
- **Body Material**: Brass - Stainless Steel
- **Pressure Resistance**: PN 200
- **Temperature Resistance**: 120 °C
- **Connection**: 1/4” ... 1”
- **Switch**: SPDT Switch (230 V AC 1A 50 VA)
- **Application Types**: Water, Acid, Base, Oil

### TORK-UZ Type Flowmeter

- **Measurement Range**: 2 - 500 l/hour
- **Body Material**: Brass / Stainless Steel
- **Pressure Resistance**: PN 16
- **Temperature Resistance**: 90 °C
- **Connection**: 1/2” – 2”
- **Sensitivity**: 3%
- **Output**: Micro Switch
- **Application Types**: Water, Acid, Base, Oil

### TORK-FLEX Type Flowmeter and Flow Switch

- **Measurement Range**: 0.001 - 10 l/min.
- **Body Material**: Stainless Steel
- **Pressure Resistance**: 10 Bar
- **Temperature Resistance**: 70 °C
- **Connection**: Ø6 / Ø8 / Ø10 mm
- **Switch**: NPN / PNP Transistor Switch
- **Output Signal**: 4-20 mA / 0-10 V Analog Signal
- **Application Types**: Water, Acid, Base, Oil

### TORK-EFKP Type Calorimetric Flow Switch

- **Measurement Range**: 20 - 50 cm/sec.
- **Body Material**: Stainless Steel
- **Pressure Resistance**: 100 Bar - 200 Bar
- **Temperature Resistance**: 70 °C
- **Connection**: 1/4” - 1/2”
- **Switch**: NPN - PNP Transistor Switch
- **Output Signal**: 4-20 mA / 0-10 V Analog Signal
- **Application Types**: Water, Acid, Base, Oil

www.sms-tork.com  export@sms-tork.com  +90 (216) 364 34 05
**Magnetic Level Switch**

- **Body Material**: PP and stainless steel, PA12
- **Voltage Supply**: Max. 250V, 24V 1A, IP65
- **Switch**: One pole, One Way N.C., N.O.
- **Temperature**: -25 °C ... 105 °C
- **Connection**: 1/2”
- **Application Types**: Water, Limpid Fluid Types, Acid, Viscous Fluid, Glue
- **Fluid Concentration**: 0.7 gr/cm³

**Magnetic Level Switch**

- **Body Material**: PVDF, PP
- **Voltage Supply**: Max 250 V, 24V 1A, IP65
- **Switch**: One pole, One Way N.C., N.O.
- **Temperature**: -25 °C ... 130 °C
- **Connection**: M16
- **Application Types**: Water, Limpid Fluid Types, Acid
- **Fluid Concentration**: 0.6 - 0.7 gr/cm³

**Level Switch with Float**

- **Body Material**: Stainless Steel, Brass, Teflon, PVC
- **Voltage Supply**: 250 V
- **Switch**: One pole, Two Ways N.C., N.O.
- **Temperature**: -25 °C ... 110 °C, 180 °C, 300 °C
- **Connection**: 3/4”, 1”, and DN65
- **Application Types**: Water, Steam, Limpid Fluid, Acid, Viscous Fluid

**Level Switch with Float**

- **Body Material**: Stainless Steel, PVC
- **Voltage Supply**: Max 250 V, 24V 1A, IP65
- **Switch**: One pole, Two Ways N.C., N.O.
- **Temperature**: 105 °C
- **Connection**: 1/8” and 3/8”
- **Probe Length**: 75 mm
- **Fluid Concentration**: 0.66 - 0.8 gr/cm³
- **Application Types**: Water, Limpid Fluid, Acid.
Level Switch with Float

Body Material: Stainless Steel
Pressure Resistance: PN 10
Temperature Resistance: 125 °C
Connection Size: 1/4"
Contact: N.O., N.C., SPDT
Application Types: Water, Oil, Non-Aggressive Liquids
Cable: 1.5 m silicone

Level Switch with Float

Body Material: Stainless Steel
Pressure Resistance: PN 10
Temperature Resistance: 125 °C
Connection Size: 1/4” ... 1”
Contact: N.O., N.C., SPDT
Application Types: Water, Oil, Non-Aggressive Liquids
Cable: 1.5 m silicone

Level Switch with Float

Body Material: Stainless Steel
Pressure Resistance: PN 10
Temperature Resistance: 125 °C
Connection Size: 1/4”
Contact: N.O., N.C., SPDT
Application Types: Water, Oil, Non-Aggressive Liquids
Cable: 1.5 m silicone

Radar Level Transmitter

Body Material: Stainless Steel, Aluminium
Measurement Range: 30 cm ... 20 m
Pressure Resistance: -1 ... 40 bar
Temperature Resistance: -40 °C ... +150 °C
Connection Size: 3/4”
Output: 4-20 mA, PNP (N.O., N.C.)
Application Types: Water, Hydrocarbone, Viscose Liquids, Aggressive Liquids, Solids
Ex-proof: ATEX
Sensitivity: ±3 mm
LEVEL MEASUREMENT AND CONTROL

Level Transmitters with Float

Body Material: Stainless Steel, Brass, PVC
Voltage Supply: Max 250 V, 24V 1A, IP65
Switch: One pole, One Way N.C., N.O.
Outlet Signal: 4-20 mA and with Digital Indicator
Pressure: 10-40 bar
Temperature: -25 °C…105 °C
Connection: 1”…2”
Measurement Range: max. 2 mt.
Probe Length: 75 mm
Fluid Concentration: 0.34…0.4 gr/cm³
Application Types: Water, Limpid Fluid, Acid.

Level Gauge & Transmitter

Body Material: Stainless Steel, PVC, PTFE
Voltage Supply: Max 250 V, 24V 1A, IP65
Switch: One pole, Two Ways N.C., N.O.
Outlet Signal: 4-20 mA and with Digital Indicator
Pressure: 16 bar, 400 bar
Temperature: 60 °C, 150 °C, 400 °C
Connection: DN 20…DN 40
Probe Length: 0.3m…6m
Application Types: Water, Steam, Limpid Fluid, Acid, Nutrient
Concentration: 0.45…3 kg/l
Viscosity: max. 1500 mPascal

Level Switch Vibrating Fork System

Body Material: Stainless Steel
Voltage Supply: Max 250 V, 24V 1A, IP65
Switch: One pole, One Way N.C., N.O.
Pressure: 16 bar, 100 bar, 400 bar
Temperature: -30°C…115 °C
Connection: 1”
Probe Length: 130 mm Standard (max 2000 mm.)
Application Types: Water, Limpid Fluid, Acid.

Immersion Type Level Switch for Submersible Measurement

Body Material: Stainless Steel, PVC, PTFE
Voltage Supply: Max 250 V, 24V 1A, IP65
Switch: One pole, Two Ways N.C., N.O.
Outlet Signal: 4-20 mA and with Digital Indicator
Pressure: 10 bar, 16 bar, 320 bar
Temperature: -60 °C…80 °C, 400 °C
Connection: DN 20…DN 40
Probe Length: 0.3m…6m and 250 m
Application Types: Water, Deep Artesian Wells, Tanks, Ex-proof Atmospheres
Concentration: 0.5…2 kg/l
Viscosity: max. 200 mPascal
Level Switch with Cable

- **Body Material**: PP, Hypalon
- **Voltage Supply**: Max 250 V, 24V 1A, IP65
- **Switch**: One pole, Two Ways N.C., N.O.
- **Pressure**: 3.5 bar
- **Temperature**: Max. 95 °C
- **Probe Length**: 2m, 5m, 10m, 20m, 30m
- **Application Types**: Water, Limpid Fluid, Acid, Wheat, Paint, Sand, Plastic, Coal, Lime, Cement

*On request Ex-proof models.*

Ultrasonic Level Switch + Indicator + Analog Outlet

- **Body Materials**: PP, PVDF
- **Voltage Supply**: 24 V DC
- **Output Signal**: 4-20 mA and PNP and NPN switch
- **Temperature**: max. 95 °C
- **Probe Length**: max. 2.5m, 6m, 12m.
- **Application Types**: Water, Limpid Fluid, Acid, Plastic, Petroleum and Petrochemical Plants etc.

Level Switch for Controlling and Measuring Low Level

- **Body Materials**: PVC, Brass
- **Voltage Supply**: 220 V AC
- **Switch**: One pole, Two Ways N.C., N.O.
- **Temperature**: max. 80 °C
- **Probe Length**: min. 2 cm...50 cm.
- **Application Types**: Water, Limpid Fluid, Acid, Chemical Fluid etc.

Level Switch by Rotary Paddle / Level Switch by Diaphragm

- **Body Materials**: PVC, Stainless Steel
- **Voltage Supply**: max. 250 V, 1A, IP50
- **Switch**: One pole, Two Ways N.C., N.O.
- **Temperature**: -10°C...80 °C
- **Application Types**: Wheat, Paint, Sand, Plastic, Coal, Lime.
**Manometers**

Measurement Range: -1…15 Bar 0 … 400 Bar  
Dimension: 40 mm... 160 mm  
Body: Plastic  
Connection: From Downside or Backside  
Application Types: Venting Systems, Hydraulic-Pneumatic Systems

**Manometers for Hard Environments**

Measurement Range: -1…15 Bar 0 … 400 Bar  
Dimension: 40 mm... 160 mm  
Body: Stainless Steel  
Connection: From Downside or Backside  
*Models with glycerin exist.

**Manometers for Chemicals**

Measurement Range: -1…15 Bar 0 … 400 Bar  
Dimension: 40 mm... 160 mm  
Body: Stainless Steel  
Connection: From Downside or Backside  
Application Types: Chemical and Petrochemical Industry, Nutrient Industry, Machine Industry, Factory Systems  
*Models with glycerin exist.

**Manometers with Switch**

Measurement Range: -1…15 Bar 0 … 400 Bar  
Dimension: 100 mm... 160 mm  
Body: Stainless Steel  
Connection: From Downside or Backside  
Manometers with Diaphragm

Measurement Range: -1...25 Bar 0...250 Bar
Dimension: 100 mm... 160 mm
Body: Stainless Steel
Connection: From Downside
Application Types: Machine Industry,
Hydraulic-Pneumatic Systems,
Water Systems, Factory Systems

*Models with glycerin and switch exist.

Differential Manometers (Differential Pressure)

Measurement Range: 0...600 Bar
Dimension: 80 mm... 160 mm
Body: Stainless Steel / Aluminium
Application Types: Machine Industry, Compressors,
Pumps, Factory Systems,
Chemical Industry, Mine and Ship
Industry, Purifying Systems.

*Models with switch exist.

Oblique Type Manometers

Measurement Range: 0 – 500 Pa 100 – 500 Pa
Body: Acrylics
Connection: 4-6 mm hose connection
Sensitivity: -40 °C...50 °C
Application Types: Venting Systems, Filters,
Laboratories

Diaphragms for Chemicals

User can face with problems with measuring pressure value of the fluid due to high temperature, high viscosity, and crystallization. Especially in chemical materials and nutrient production lines, measurement must be done with the help of a specialized diaphragm which is chosen according to the fluid specifications

Body: CrNi Steel / Hastelloy / Titanium / PTFE
Temperature: -90 °C...400 °C
Pressure: PN 1600
Application Types: Chemical Industry, Nutrient Industry

www.sms-tork.com  export@sms-tork.com  +90 (216) 364 34 05
Digital Manometers

Measurement Range: 0 ... 700 Bar
Indicator: 4 Digit LCD Screen
Temperature: -30 °C ... +85 °C
(>50 Bar -30 °C ... +100 °C)
Body: Stainless Steel
Application Types: Machine Industry, Factory Systems, Hydraulic-Pneumatic Systems

Pressure Transmitter

Measurement Range: 0 ... 1000 Bar
Body: Stainless Steel / Aluminium
Connection Size: 1/4"
Voltage Supply: 10-30 V DC
Output Signal: 4-20 mA/0-10 V
Sensitivity: 1%
*Exproof models exist
*Models for measuring gross pressure exist.

Pressure Transmitter with Internal Diaphragm

Measurement Range:
  Negative Pressure: -1...5 Bar - 0.1 ... 0 Bar
  Positive Pressure: 0...0.1 Bar 0 ... 4000 Bar
Gross Pressure: 0 ... 0.25 Bar 0 ... 16 Bar
Body: Stainless Steel
Connection: 1/2"
Voltage Supply: 10 - 30 V DC
Output Signal: 4-20 mA/0-10 V
Sensitivity: 0.5% /0.25%
*Exproof models exist
*Models for measuring gross pressure exist.

Pressure Transmitter with Front Diaphragm

Measurement Range:
  Negative Pressure: -1...5 Bar - 0.1 ... 0 Bar
  Positive Pressure: 0...0.1 Bar 0 ... 4000 Bar
Gross Pressure: 0 ... 0.25 Bar 0 ... 16 Bar 0 ... 25 Bar
Body: Stainless Steel
Connection: Tri clamp 1 1/2", 1/2" Diaphragmed
Voltage Supply: 10 - 30 V DC
Output Signal: 4-20 mA/0-10 V
Sensitivity: 0.5% /0.25%
*Exproof models exist
*Models for measuring gross pressure exist.
### Low Pressure and Differential Pressure Transmitters

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>0 ... 1 Bar 0... 1000 mBar</td>
</tr>
<tr>
<td>Body</td>
<td>Stainless Steel / Aluminium</td>
</tr>
<tr>
<td>Voltage Supply</td>
<td>15-30 V DC</td>
</tr>
<tr>
<td>Output Signal</td>
<td>4-20 mA</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1% / % 0.6</td>
</tr>
<tr>
<td>Application Types</td>
<td>Heating-Cooling Systems and Venting Systems, Filter Systems, Medical Devices</td>
</tr>
</tbody>
</table>

### Smart Type Pressure and Differential Pressure Transmitters

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>0 ... 400 Bar</td>
</tr>
<tr>
<td>Voltage Supply</td>
<td>12,5 ... 30 V DC</td>
</tr>
<tr>
<td>Output Signal</td>
<td>4-20 mA Analog Output Signal, HART</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>1% / % 0.6</td>
</tr>
</tbody>
</table>

### Differential Pressure Switch / Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>0 ... 100 bar</td>
</tr>
<tr>
<td>Supply</td>
<td>10 ... 30 V DC</td>
</tr>
<tr>
<td>Body</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Temperature</td>
<td>-40 ... 85°C</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>% 1 F.S</td>
</tr>
<tr>
<td>Connection</td>
<td>1/8”</td>
</tr>
<tr>
<td>Output</td>
<td>4 - 20 mA</td>
</tr>
</tbody>
</table>

### Differential Pressure Switch / Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement Range</td>
<td>0 ... 250 mbar</td>
</tr>
<tr>
<td>Supply</td>
<td>10 ... 30 V DC</td>
</tr>
<tr>
<td>Body</td>
<td>ABS Plastic</td>
</tr>
<tr>
<td>Temperature</td>
<td>0 ... 50°C</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>% 1 F.S</td>
</tr>
<tr>
<td>Connection</td>
<td>6-5 mm pipe</td>
</tr>
<tr>
<td>Output</td>
<td>4 - 20 mA / 0-10 V DC</td>
</tr>
</tbody>
</table>
### Pressure Transmitters for Submerge Measurement

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Range</strong></td>
<td>0...0.1 Bar, 0...25 Bar</td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Voltage Supply</strong></td>
<td>10 - 30 V DC</td>
</tr>
<tr>
<td><strong>Output Signal</strong></td>
<td>4-20 mA (2 cables), 0-20 mA (3 cables), 0-10 V DC (3 cables)</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>0.5 % / 0.25 %</td>
</tr>
<tr>
<td><strong>Application Types</strong></td>
<td>Tank Level Measurement Systems, Potable Water Systems, Purifying Systems</td>
</tr>
</tbody>
</table>

### Regulatable Mechanic Pressure Switch

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Range</strong></td>
<td>0.3...2 Bar, 50...400 Bar</td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>Steel covered with Zinc</td>
</tr>
<tr>
<td><strong>Electrical Resistance</strong></td>
<td>220 V AC / 2A</td>
</tr>
<tr>
<td><strong>Switch</strong></td>
<td>Normally Open / Normally Closed / SPDT</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>1/4”</td>
</tr>
<tr>
<td><strong>Application Types</strong></td>
<td>Hydraulic-Pneumatic Systems, Machine Industry</td>
</tr>
</tbody>
</table>

### Electronic Pressure Switch

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Range</strong></td>
<td>-0.1...-0.05 Bar, 5mbar...100 mbar, 50...1000 Bar</td>
</tr>
<tr>
<td><strong>Body</strong></td>
<td>Aluminium / Plastic</td>
</tr>
<tr>
<td><strong>Voltage Supply</strong></td>
<td>10 - 30 V DC</td>
</tr>
<tr>
<td><strong>Switch</strong></td>
<td>2 N.O./1 N.O. + 1 N.C.(Regulatable)</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>1/4” (Brass Connection)</td>
</tr>
<tr>
<td><strong>Sensitivity</strong></td>
<td>1% / % 0.6</td>
</tr>
</tbody>
</table>

www.sms-tork.com
export@sms-tork.com +90 (216) 364 34 05
**Electronic Pressure Switch**

- **Measurement Range**: -1...-10 Bar, 0...700 Bar
- **Indicator**: 4 Digits and 7 Segments of Indicator
- **Body**: Aluminium / Plastic
- **Voltage Supply**: 12 - 30 V DC
- **Switch**: 2 N.O./1 N.O. + 1 N.C.(4-20 mA Outlet is optional)
- **Connection**: 1/4” (Brass Connection)
- **Application Types**: Machine Industry, Hydraulic-Pneumatic Systems, Vacuum Systems, Building Automation Systems

---

**Regulatable Low Pressure Switch**

- **Measurement Range**: -5 ...-700 mbar, 5...20 mbar, 1...12 Bar
- **Voltage Supply**: 10A, 250V AC
- **Switch**: 1 Unit of SPDT Switch
- **Switch Life**: Min. 106 On-Off
- **Connection**: 1/4” (Brass Connection)

---

**Factory Set Valued Low Pressure Switch**

- **Measurement Range**: -200 ...-900 mbar, 5...3000 mbar, 1...12 Bar
- **Voltage Supply**: 10A, 250V AC
- **Switch**: 1 Unit of SPDT Switch
- **Switch Life**: Min. 106 On-Off
- **Connection**: 1/4” (Brass Connection)

---

**Regulatable Differential Pressure Switches**

- **Measurement Range**: 5...50mbar
- **Voltage Supply**: 10A, 250V AC
- **Switch**: 1 Unit of SPDT Switch
- **Switch Life**: Min. 106 On-Off
- **Connection**: 1/4” (Brass Connection)
Regulators

Connection Size: 1/4", 1/2", 3/4", 1" NPT
Max. Input Pressure: 10, 17 Bar
Output Pressure: 0-2 Bar, 0-4.1 Bar, 0-8.3 Bar, 0-10.3 Bar
Working Temperature: -20 °C...80 °C
Body: Aluminium
Seal: Nitrile, Nitrile Elastomer

Regulators for Gas, Natural Gas, and Propane

Connection Size: 1/8", 1/4", 1/2", 3/4", 1" NPT
Max. Inlet Pressure: 28, 200, 225, 379 Bar
Outlet Pressure: 0-2 Bar, 0-4.1 Bar, 0-8.3 Bar, 0-10.3 Bar, 0-15.5 Bar, 0-34.5 Bar
Working Temperature: -46 °C...106 °C
Body: Brass / Brass Covered with Nickel / 316 SS, Zinc/Aluminium
Leakproofing Material: TFE, Nitrile, Nitrile Elastomer, Florocarbon, TFE

I/P and E/P Converters

Inlet Pressure: 7 Bar
Inlet Signal: 4 – 20 mA / 0 – 10V DC
Outlet Pressure: 3 – 150 psi
TORK-1000 Converters are electro pneumatic devices which supply air regulation according to the electrical signal. These converters which have a wide range of application; supply proportional outlet pressure between 3-150 psi as a response to 4-20 mA power signal and 0-10 V voltage. These devices, which are for regulating air pressure by converting air supply pressure to pressure force according to the electrical signal, can provide high flow capacity thanks to its charger.

Loadcell

Body: Zinc Plated with Chromium
Measurement Range: 0 ... 100 kg, 0 ... 250 ton
Output Signal: 4-20mA, 0-10 V DC, 1.0 mV/V
Sensitivity: ±%1.6, %1, %0.5, %0.1
Application Types: Measurement of Weight and Tension, Pressure Sension Systems
Resistance Thermometer

- **Sensor**: PT100 Class B, PT100 Class A
- **Material**: Stainless Steel
- **Measurement Range**: -200 ... +600 °C
- **Connection**: G 1/4", G 3/8", G 1/2", G 3/4", 1/2"NPT, 1/4"NPT, M14x1,5
- **Sensor Length**: 25, 50, 75, 100, 160, 200, 300, 400, 500 mm
- **Sensor Diameter**: 3, 6, 8 mm
- **Supply**: 10-30 VDC
- **Output**: 4-20mA, 0-10 VDC, PT100, PT1000

Resistance Thermometer

- **Sensor**: PT100 Class B, PT100 Class A
- **Material**: Stainless Steel
- **Measurement Range**: -200 ... +600 °C
- **Connection**: G 1/4", G 3/8", G 1/2", G 3/4", 1/2"NPT, 1/4"NPT, M14x1,5
- **Sensor Diameter**: 3, 6, 9, 11, 14 mm
- **Output**: PT100, 4-20 mA

Thermocouple

- **Sensor**: K, J, S, L Type
- **Material**: Stainless Steel
- **Measurement Range**: -200 ... +1200 °C
- **Connection**: Immersible, G 1/4", G 3/8", G 1/2", G 3/4", 1/2"NPT, 1/4"NPT, M14x1,5
- **Sensor Diameter**: 6, 9, 11, 14 mm
- **Output**: Ohm, 4-20 mA
# Digital Control Instruments

- **Input**: T/C, R/T, mA, mV, 0-10V
- **Output**: 0-20mA, relay, SSR
- **Indicator**: 2x4 digit LED
- **Supply**: 85–265 VAC, 85–375 VDC, 20–60 VAC, 20–85 VDC
- **Size**: 48x48, 72x72, 96x96, 48x96, 96x48
- **Communication**: RS485

![E48](image1) ![E49](image2) ![E72](image3) ![E94](image4)

# Digital Control Instruments

- **Input**: T/C, R/T, mA
- **Output**: Rôle, SSR
- **Indicator**: 1x4 digit LED
- **Supply**: 220 VAC, 24 VAC
- **Size**: 48x48, 72x72, 96x96

![E50](image5) ![E70](image6) ![E90](image7)

# Universal Control Instruments

- **Input**: T/C, R/T, mA
- **Output**: 4-20mA, relay, SSR
- **Indicator**: 2x4 digit LED
- **Supply**: 85–265 VAC, 85–375 VDC, 20–60 VAC, 20–85 VDC
- **Size**: 96x96
- **Communication**: RS485

![E200](image8) ![E210](image9)