

TECHNIQUIP



TECHNICAL SUPPORT FROM
CONCEPTION TO INSTALLATION



FLOW

LEVEL



PRESSURE

INSTRUMENTATION



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TECHNIQUIP



TECHNICAL SUPPORT FROM
CONCEPTION TO INSTALLATION

Techniquip was established in 1988 to provide technical support and supply of flow metering equipment. We quickly established a strong reputation and have since added pressure and liquid level measuring equipment to our field of expertise.

We supply flow meters, flow transmitters and switches for gases and liquids from 1cc/min to flow in 3 metre pipes. Our pressure products include transmitters, switches and gauges and a comprehensive range of liquid level instruments complete our product range.

Techniquip will provide you with technical support from conception to installation. At quotation stage we will examine your requirements thoroughly, making recommendations that will suit your application. We will always propose the most cost effective solution to suit your requirements.

Products offered in this catalogue are from our most popular lines. Each item has been applied extensively throughout industry in a wide variety of applications. We can now supply these instruments to you from **STOCK** or on **QUICK** delivery.

All our products are from leading manufacturers, a few examples listed below.



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PRICE LIST

A comprehensive price list is available. Please request your copy via our website www.techniquip.co.uk and click “contact”.

PAYMENT TERMS

Existing Account Holders Invoiced net 30 days.

NEW CUSTOMERS

Credit accounts can be established within 7 working days, ask for details. Visa/Mastercard accepted, or Cheque with order. Terms and conditions available on request.



PANEL MOUNTED FLOWMETERS



- Glass Tube VA Flowmeter
- Panel mounting.
- In-Line or rear facing connections
- Standard scales for Air, Water and common gases
- Custom scales for alternative liquids and gases
- Adjustable alarm options
- Optional needle valve
- **NEW** 2 wire 4-20mA Transmitter

SPECIFICATION

| | |
|---------------|--|
| Gas ranges | 5cc/min - 100 l/min (Air equiv) |
| Liquid ranges | 2cc/min - 4.4 l/min (H2O equiv) |
| Scale length | 30mm (compact), 100mm (standard) |
| Accuracy | Class 2.5 VDI/VDE |
| Temp Range | -15 to 120 oC |
| Pressure | 20 barg max - non shock |
| Connections | 1/4" BSPF In line or rear facing |
| Conn Mat'l | Nickel Plated Brass or St Steel |
| Seals | Viton |
| Tube | Borosilicate Glass |
| Float | St Steel, Anodised Aluminium or Acetal |

PRODUCT CODES

| MODEL Compact | MODEL Standard | In Line Conns | Back Conns | Brass | St Steel | Valve |
|------------------|-------------------|------------------|---------------|-------|----------|-------|
| CSB | SSB | X | | X | | |
| CSS | SSS | X | | | X | |
| CAB | SAB | | X | X | | |
| CAS | SAS | | X | | X | |
| CV*B | SV*B | | X | X | | X |
| CV*S | SV*S | | X | | X | X |

* Insert - 1 for flow < 13 l/min Air or 2 for flow > 13 l/min Air
eg. SV1B 0.1-1.2 l/min Air (see page 5)

STANDARD SCALES

STANDARD 100MM SCALES

| Water | Air | Argon | Butane | Carbon Dioxide | |
|---------|---------|---------|---------|----------------|--------|
| 1-10 | | | | | cc/min |
| 2-25 | 5-100 | 5-80 | 20-130 | 10-100 | |
| 4-60 | 20-250 | 20-200 | 50-290 | 20-250 | |
| 20-280 | 60-600 | | | | |
| 40-480 | 50-750 | 40-660 | 100-800 | 50-750 | |
| 50-750 | | | | | L/min |
| 0.1-1.5 | | | | | |
| 0.3-3 | 0.1-1.2 | 0.1-1 | 0.1-1.1 | 0.1-1.1 | |
| 0.4-4.4 | 0.2-2 | 0.2-1.7 | 0.4-2 | 0.2-1.8 | |
| | 0.3-3 | 0.2-2.6 | | 0.3-2.8 | |
| | 0.6-5 | 0.4-4 | 0.8-4 | 0.6-4.4 | |
| | 1-10 | 1-8 | | | |
| | 1-13 | 1-11 | 1-10 | 1-11 | |
| | 2-26 | 2-22 | | 2-20 | |
| | 4-50 | 4-44 | | 4-40 | |
| | 10-100 | 10-90 | | 10-80 | |

| Carbon Monoxide | Cracked Ammonia | Helium | Hydrogen | Methane | |
|-----------------|-----------------|---------|----------|---------|--------|
| 10-100 | 10-120 | 5-100 | 20-250 | 10-150 | cc/min |
| 20-250 | 20-270 | 30-360 | 20-280 | 40-360 | |
| 50-800 | | 50-800 | | | L/min |
| 50-750 | | | | | |
| 0.1-1.2 | 0.1-1.8 | 0.1-1.8 | 0.2-3.4 | 0.1-1.7 | |
| 0.2-2 | 0.3-3 | 0.2-3 | 0.4-5.6 | 0.4-2.8 | |
| 0.2-3 | | 0.4-5 | 0.5-10 | 0.4-4.4 | |
| 0.6-5 | 1-8 | 0.5-9 | 1-15 | 1-7 | |
| | | 2-20 | | | |
| 1-12 | 2-22 | 1-28 | 2-46 | 1-18 | |
| 2-26 | 4-48 | 2-60 | 5-95 | 2-36 | |
| | 10-90 | 5-120 | 10-180 | 5-70 | |
| | 20-180 | 20-270 | 40-400 | 15-140 | |

| Nitrogen | Oxygen | Propane | |
|----------|---------|---------|--------|
| 5-100 | 5-90 | 10-140 | cc/min |
| 20-250 | 20-220 | 40-300 | |
| 50-800 | 50-700 | 100-850 | L/min |
| | | | |
| 0.1-1.2 | 0.1-1.1 | 0.1-1.2 | |
| 0.2-2 | 0.2-1.8 | 0.3-2.2 | |
| 0.3-3 | 0.4-2.8 | 0.4-3.1 | |
| 0.6-5 | 0.4-4.4 | 0.8-4.8 | |
| | | | |
| 1-13 | 1-12 | 1-11 | |
| 2-27 | 2-25 | 2-22 | |
| 4-50 | 4-50 | 4-40 | |
| 10-100 | 10-100 | 10-85 | |



STANDARD 30MM SCALES

| Water | Air | |
|---------|----------|--------|
| 1-10 | 20-200 | cc/min |
| 25-250 | 50-500 | |
| 100-700 | 100-1000 | |
| | | L/min |
| 0.2-1 | 0.2-1 | |
| | 0.5-2.5 | |
| | 0.5-5 | |
| | 2-12 | |
| | 5-25 | |



CALIBRATIONS AT 20°C & 760MMHG

Standard Scale Ranges from Stock - Bespoke scales for alternative fluids, pressures and temperatures available on request

PORTABLE FLOW TEST KIT



- Portable flow test kit
- Glass Tube flowmeter
- Bench mounting
- Rear facing connections
- Interchangeable flow tubes
- Standard scales for Air, Water and common gases
- Custom scales for alternative liquids and gases
- Optional needle valve

SPECIFICATION

| | |
|---------------|--|
| Gas ranges | 5cc/min - 100 l/min (Air equiv) |
| Liquid ranges | 2cc/min - 4.4 l/min (H2O equiv) |
| Scale length | 100mm |
| Accuracy | Class 2.5 VDI/VDE |
| Temp Range | -15 to 120 oC |
| Pressure | 20 barg max - non shock |
| Connections | 1/4" BSPF Rear facing |
| Conn Mat'l | Nickel Plated Brass or St Steel |
| Seals | Viton |
| Tube | Borosilicate Glass |
| Float | St Steel, Anodised Aluminium or Acetal |
| Valve | St Steel needle valve included |

PRODUCT CODE

MODEL

PFTK – Flow Ranges (see page 5)

SAFETY HOUSED FLOWMETERS



- Glass tube VA Flowmeter
- Safety housing
- In-Line connections
- Standard scales for Air, Water and common gases
- Custom scales for alternative liquids and gases
- Robust aluminium housing
- Adjustable alarm accessory
- Optional needle valve (Page 30)
- 2 wire 4-20mA Transmitter option

SPECIFICATION

| | |
|---------------|--|
| Gas ranges | 5cc/min - 100 l/min (Air equiv) |
| Liquid ranges | 2cc/min - 4.4 l/min (H2O equiv) |
| Scale length | 100mm |
| Accuracy | Class 2.5 VDI/VDE |
| Temp Range | -15 to 120 oC |
| Pressure | 20 barg max - non shock |
| Pressure Drop | Gases 6 mbar max. Liquids 25 mbar max |
| Connections | 3/8" BSPF In line |
| Conn Mat'l | St Steel |
| Seals | Viton |
| Tube | Borosilicate Glass |
| Float | St Steel, Anodised Aluminium or Acetal |

PRODUCT CODE

MODEL

SH 3/8" S – Flow Range (see page 5)

PLASTIC TUBE FLOWMETER



- Open Frame - High visibility
- Surface or in-line mounting.
- Low cost
- High capacity
- Standard scales for Air and Water
- Low Pressure Drop
- Ideal for air purging or water cooling circuits
- Adjustable alarm accessory

SPECIFICATION

| | |
|---------------|--|
| Gas ranges | 10 - 600 l/min (Air equiv) |
| Liquid ranges | 0.6 - 40 l/min (H2O equiv) |
| Scale length | 100 and 140mm |
| Accuracy | Class 2.5 VDI/VDE |
| Temp Range | 60 oC max |
| Pressure | 8 bar max @ 20oC, 3 bar max @ 60oC |
| Connections | 1/2" or 1" BSPF In line |
| Conn Mat'l | Nickel Plated Brass (1/2"only) or St Steel |
| Seals | Nitrile |
| Tube | Acrylic |
| Float | St Steel or Anodised Aluminium |

PRODUCT CODES

| MODEL | l/min H2O | l/min Air |
|-----------|-----------|-----------|
| OF 1/2" * | 0.6 - 6 | 10 - 100 |
| OF 1/2" * | 1 - 10 | 30 - 200 |
| OF 1" S | 2 - 20 | 40 - 360 |
| OF 1" S | 4 - 40 | 60 - 600 |

* Enter B = Brass, S = St Steel

LOW PRESSURE DROP FLOWMETER



- Glass / Plastic Tube VA Flowmeter
- Low Pressure Drop
- Standard scales for Air, Water & Natural Gas
- Custom scales for alternative liquids and gases
- Panel or pipe mounting
- Robust aluminium housing
- Adjustable alarm options
- 2 wire 4-20mA Transmitter option

SPECIFICATION

| | |
|------------------|---------------------------------------|
| Gas ranges | 10 - 2000 l/min (Air equiv) |
| Liquid ranges | 0.5 - 100 l/min (H2O equiv) |
| Scale length | 140 and 200mm |
| Accuracy | Class 2.5 VDI/VDE |
| Temp Range Glass | 120oC Acrylic 60oC |
| Pressure | Glass 20 barg max - non shock |
| Pressure Drop | Gases 6 mbar max. Liquids 25 mbar max |
| Connections | 1/2" and 1" BSPF In line |
| Conn Mat'l | St Steel |
| Seals | Nitrile |
| Tube | Borosilicate Glass and Acrylic |
| Float | St Steel and Anodised Aluminium |

PRODUCT CODES

| MODEL | l/min H2O | l/min Air | l/min CH4 |
|-----------|-----------|------------|------------|
| LPL 1/2" | MH | 0.5 - 7 | 10 - 120 |
| LPL 1/2" | MH | 1.5 - 12 | 30 - 230 |
| LPL 1" MH | 2 - 20 | 40 - 360 | 60 - 480 |
| LPL 1" MH | 4 - 40 | 60 - 600 | 80 - 800 |
| LPL 1" LH | 5 - 60 | 100 - 1000 | 150 - 1300 |
| LPL 1" LH | 10 - 100 | 300 - 2000 | 300 - 2600 |

Note LH - Acrylic Tube

INDUSTRIAL FLOWMETER



- Metal tube VA Flowmeter
- In-Line unsupported mounting
- Screwed or flanged connections
- All Stainless Steel construction
- Ideal for arduous applications
- Standard scales for Air and Water
- Custom scales for alternative liquids and gases
- Transmitter and alarm options
- 2" and 3" Model's available

SPECIFICATION

| | | |
|---------------|---------|--|
| Gas ranges | | 0.1 – 110 Nm ³ /hr (Air equiv) |
| Liquid ranges | | 5 l/hr – 6 m ³ /hr (H ₂ O equiv) |
| Scale length | | 100 mm |
| Accuracy | | +/- 2% FS |
| Temp Range | Ambient | -30 to 65 oC |
| | Fluid | -40 to +200 oC |
| Pressure | | 100 barg max |
| Connections | | 1/2" and 1" Screwed BSP Female |
| Or | | Flanged ND 15 or 25. PN16 |
| Material | | 316 St. Steel standard |

PRODUCT CODES

| MODEL | Water @ 20oC | Air @ ATP | DP @ Qmax mBar |
|---------|-------------------------------|------------------------------|-------------------|
| FTK-15* | 5 - 40 L/h | 0.1 - 1.2 m ³ /hr | 40 |
| FTK-15* | 10 - 70 L/h | 0.3 - 2 m ³ /hr | 40 |
| FTK-15* | 10 - 100 L/h | 0.3 - 3 m ³ /hr | 40 |
| FTK-15* | 20 - 160 L/hr | 0.5 - 5 m ³ /hr | 60 |
| FTK-15* | 25 - 250 L/hr | 0.5 - 7 m ³ /hr | 60 |
| FTK-15* | 40 - 400 L/hr | 1 - 11 m ³ /hr | 60 |
| FTK-15* | 60 - 600 L/hr | 2 - 17 m ³ /hr | 80 |
| FTK-25* | 0.1 - 1 m ³ /hr | 3 - 30 m ³ /hr | 60 |
| FTK-25* | 0.2 - 1.6 m ³ /hr | 5 - 45 m ³ /hr | 75 |
| FTK-25* | 0.25 - 2.5 m ³ /hr | 7 - 70 m ³ /hr | 90 |
| FTK-25* | 0.4 - 4 m ³ /hr | 10 - 110 m ³ /hr | 100 |
| FTK-25* | 0.6 - 6 m ³ /hr | | 500 |

* S – Screwed * F - Flanged

SHUNT TYPE FLOWMETER



- Orifice, By-pass VA flowmeter
- Wafer type connection
- Horizontal or vertical installation
- Standard scales for Air and Water
- Custom scales for alternative liquids and gases
- Integral Bleed and Drain
- 2-wire Transmitter and alarm options
- Cost effective flow metering in larger pipes

SPECIFICATION

| | |
|----------------|--|
| Gas ranges | 20 – 7000 Nm ³ /hr (Air equiv) |
| Liquid ranges | 2 – 1000 m ³ /hr (H ₂ O equiv) |
| Pipe Size | 38 – 200mm Nom Bore |
| Scale length | 100 mm |
| Accuracy Class | +/- 2% FS |
| Temp Range | -15 to 90 °C |
| Pressure | 20 Barg max non-shock |
| Connections | Suitable for clamping between flanges |
| Orifice Mat'l | Carbon Steel Carrier / St Steel plate |
| Seals | Viton |
| Tube | Borosilicate glass |
| Float | Liquids St Steel, Gases Anodised Aluminium |

PRODUCT CODES

| MODEL | m ³ /hr H ₂ O | m ³ /hr H ₂ O | N.m ³ /hr Air |
|--------|-------------------------------------|-------------------------------------|--------------------------|
| DF 38 | 2 - 20 | 2 - 10 | 20 - 150 |
| DF 50 | 5 - 40 | 4 - 20 | 40 - 300 |
| DF 80 | 10 - 100 | 10 - 40 | 100 - 700 |
| DF 100 | 20 - 200 | 20 - 100 | 200 - 1500 |
| DF 150 | 50 - 400 | 40 - 200 | 500 - 3500 |
| DF 200 | 100 - 1000 | 80 - 400 | 1000 - 7000 |

FLOW ALARM SENSOR AND CONTROL UNIT

INFRA RED SENSOR



- Flow alarm sensor
- Adjustable over meter range
- Available for all frame types
- Selectable output modes
- Can be Retro-Fitted
- Stand alone detector
- Optional PSU / Relay module

SPECIFICATION

| | |
|--------|-------------------------------|
| Supply | 12 VDC 30mA (Optional 24 VDC) |
| Output | 2 x NPN open collector |
| Rating | 150mA 24 VDC max |
| Cable | 3m screened 4 core |
| Temp | -5 to 60oC |

DUAL CHANNEL PSU+ RELAY MODULE



SPECIFICATION

| | |
|------------|--------------------------------|
| Supply | 115/230 VAC 50-60 Hz |
| Inputs | 1 or 2 IR sensors |
| PSU Output | 12 VDC 200mA max |
| Relays | 2 x SPNO 10A @ 30 VDC/250 VAC |
| Indicators | Power On, Output and Setup LED |
| Temp | -5 to 50oC |
| Protection | IP65 |

PRODUCT CODES

MODEL

| | |
|----------|--------------------|
| FIS - 12 | 12 vdc Sensor |
| FIS - 24 | 24 vdc Sensor |
| FPSU | PSU / Relay Module |

TURBINE FLOWMETERS



- Axial Turbine Flowmeter
- Full range of line sizes
- Excellent repeatability
- Rugged construction
- Corrosion resistant materials
- High temperature and IS versions
- Optional Readouts and Batch controllers

SPECIFICATION

| | |
|------------------|--|
| Flow Ranges | 0.028 - 68 m ³ /hr Water (or equiv) |
| Accuracy | 0.5% of rate |
| Repeatability | 0.05% |
| Press Drop | Typically 0.25 Bar @ Q _{max} |
| Temp Range | -40 to +150oC |
| Max Pressure | 350 Bar |
| Connections | Screwed BSP Male (Flanged option) |
| Output | Coil Type Frequency |
| Elec. Connection | Cannon style plug |
| Mat'l | St Steel |
| Calibration Cert | Traceable to National Standards |

PRODUCT CODES

| MODEL | L/Min H2O | Conns BSP |
|-----------|------------|-----------|
| FM10-T6A | 0.46 - 4.6 | 1/4 |
| FM10-T6B | 0.9 - 9 | 1/4 |
| FM10-T12 | 1.8 - 18 | 1/2 |
| FM10-T16A | 3.6 - 36 | 5/8 |
| FM10-T16B | 6.6 - 66 | 5/8 |
| FM10-T20 | 13 - 130 | 3/4 |
| FM10-T25 | 26 - 260 | 1 |
| FM10-T38 | 56 - 560 | 1 1/2 |
| FM10-T50 | 110 - 1100 | 2 |

WATER METERS



- Class B-H
- Cold and Hot water Models
- "Super Dry" dial
- Direct reading
- Max Reading 99,999 m3
- Magnetic drive
- Pulse output option
- Remote counters

SPECIFICATION

| | |
|--------------|-----------------------------|
| Flow Ranges | 0.01 - 30 m3/hr Water |
| Sizes | 1/2" up to 2" |
| Type | Multi jet |
| Cold Water | 30oC max |
| Hot Water | 90oC max |
| Max Pressure | 16 Bar |
| Connections | BSP Male (2" flange option) |
| Mat'l | Brass |

PRODUCT CODES

| MODEL | m3/hr max | m3/hr min | m3/hr stall | BSP |
|----------|-----------|-----------|-------------|--------|
| GMDX-15* | 3 | 0.03 | 0.01 | 1/2" |
| GMDX-20* | 5 | 0.05 | 0.14 | 3/4" |
| GMDX-25* | 7 | 0.07 | 0.17 | 1" |
| GMDX-32* | 12 | 0.12 | 0.27 | 1 1/4" |
| GMDX-40* | 20 | 0.20 | 0.46 | 1 1/2" |
| GMDX-50* | 30 | 0.45 | 0.75 | 2" |

* Enter C = cold water, H = hot water

ADJUSTABLE FLOW SWITCH



- Adjustable ranges from 0.005 – 150 l/min H₂O
- Graduated setting guide
- Simple, robust construction
- Good repeatability
- BSP connection
- Horizontal or vertical installation
- Optional St Steel wetted parts

SPECIFICATION

| | |
|----------------|------------------------|
| Flow Ranges | 0.005 -150 l/min Water |
| Max Temp | 120oC |
| Max Press | 250 Barg |
| Accuracy | +/-10% |
| Contact Type | N/O |
| Contact Rating | 1 amp /20 VA @ 230 VAC |
| Connections | 1/4", 1/2" OR 1" BSPF |
| Elect Conn | DIN 43650 Plug |
| Body Mat'l | Nickel plated brass |
| Protection | IP 65 |

PRODUCT CODES

| MODEL | l/min H ₂ O | l/min H ₂ O | l/min H ₂ O | l/min H ₂ O |
|---------------|------------------------|------------------------|------------------------|------------------------|
| BFS-10-N-1/4" | 0.005 - 0.06 | 0.02 - 0.014 | | |
| BFS-10-N-1/2" | 0.1 - 0.5 | 0.4 - 1.6 | 2.0 - 8.0 | 6.0 - 28 |
| BFS-10-N-1" | | 15 - 45 | 30 - 90 | 60 - 150 |

LIQUID FLOW SWITCH



- Adjustable ranges from 2 – 77 l/min H2O
- Simple, robust construction
- Good repeatability
- Weatherproof housing
- DIN plug connection
- Ideal for water cooling circuits

SPECIFICATION

| | |
|----------------|-----------------|
| Pipe Sizes | 1/4" - 2" |
| Max Temp | 110oC |
| Max Press | 25 BarG |
| Hysteresis | +/-10% |
| Contact Type | NO / NC |
| Contact Rating | 1 amp @ 230 VAC |
| Connections | 1/4" to 2" BSPF |
| Elect Conn | DIN 43650 Plug |
| Body Mat'l | Brass |
| Protection | IP 65 |

PRODUCT CODES

| MODEL | Adj. Switch L/min | Max Flow L/min | Connections BSP |
|--------------|------------------------------|---------------------------|----------------------------|
| VHS-308 | 2.0 - 4.0 | 30 | 1/4" |
| VHS-310 | 2.5 - 4.5 | 40 | 3/8" |
| VHS-315 | 3.5 - 6.0 | 45 | 1/2" |
| VHS-320 | 6.5 - 11 | 80 | 3/4" |
| VHS-325 | 13 - 18 | 130 | 1" |
| VHS-332 | 18 - 23 | 160 | 1 1/4" |
| VHS-340 | 32 - 42 | 300 | 1 1/2" |
| VHS-350 | 60 - 77 | 300 | 2" |

INSERTION LIQUID FLOW SWITCH



- Ranges from 1.1 – 173 m³/hr H₂O
- Site adjustable
- Robust construction
- Good repeatability
- Weatherproof housing
- For horizontal pipework
- Easy installation through 1" BSP socket
- Optional St Steel wetted parts

SPECIFICATION

| | |
|----------------|-----------------|
| Pipe Sizes | 1 1/2" - 8" |
| Max Temp | 120oC |
| Max Press | 11 BarG |
| Contact Type | SPCO |
| Contact Rating | 8 amp @ 230 VAC |
| Connection | 1" BSPM |
| Body Mat'l | Brass |
| Paddle | St Steel |
| Protection | IP 65 |

PRODUCT CODES

| MODEL VH780 | m ³ /hr H ₂ O | |
|-------------|-------------------------------------|-------------|
| | Minimum | Maximum |
| Pipe Bore | OFF - ON | OFF - ON |
| 1 1/2" | 1.1 - 1.7 | 3.7 - 4.0 |
| 2" | 2.2 - 3.1 | 5.7 - 6.1 |
| 3" | 4.3 - 6.2 | 10.7 - 11.4 |
| 4" | 11 - 15 | 27 - 29 |
| 5" | 23 - 28 | 53 - 56 |
| 6" | 36 - 43 | 81 - 85 |
| 8" | 73 - 85 | 166 - 173 |

PLASTIC FLOAT SWITCH



SPECIFICATION

| | |
|--------------------|------------------------------|
| Liquid SG | 0.65 min |
| Temp Limit | 110oC max |
| Pressure Limit | 5 Bar max |
| Reed Contact | SPST NO/NC by float reversal |
| Contact Rating | 1A and 15VA max @ 250 VAC |
| Connection | Compression gland |
| Elect Conn | 0.5m Flying Lead |
| Body Mat'l | Glass filled polypropylene |
| Grommet | Silicon rubber |
| Float Dia | 22mm |
| Mounting Hole | 23mm Installed from outside |
| Mounting Hole | 16.5mm Installed from inside |
| Max Wall Thickness | 4mm |

PRODUCT CODE

MODEL LS / 1

STAINLESS STEEL FLOAT SWITCH



SPECIFICATION

| | |
|------------------|--------------------------------|
| Liquid SG | 0.7 min |
| Temp Limit | -40 to 120oC max |
| Pressure Limit | 5 Bar max |
| Reed Contact | SPST NO/NC by float reversal |
| Contact Rating | 0.5A/240VAC/50VA |
| Connection | 1/2" BSPT from outside of tank |
| Elect Conn | DIN IP65 plug |
| Body Mat'l | Stainless Steel |
| Float Dia | 17mm |
| Insertion Length | 92mm |

PRODUCT CODE

MODEL RFS-12-P2

NON CONTACT LEVEL TRANSMITTER



- Self contained unit
- Compact, robust design
- 2 or 3 wire operation
- Digital echo processing
- Temperature compensated
- Fully configurable
- Future-proof electronics
- Weatherproof to IP67
- IS ATEX EEx-ia-IIC T6 option.

SPECIFICATION

| | |
|---------------|---|
| Level Ranges | 125 – 10,000 mm |
| Temp Range | -20 to +75 oC |
| Accuracy | +/- 0.25% or 6mm (whichever is the greater) |
| Supply | 12 – 30 VDC |
| Signal | 4 – 20mA |
| Display | 4 Digit |
| Keypad | 4 Button Interface |
| Configuration | Via keypad or RS232 (optional software) |
| Connection | 1.5" BSP, 2" BSP on 10m Unit |

PRODUCT CODES

| MODEL | Range (m) | Connection |
|--------|-----------|------------|
| IMP 3 | 0.125 - 3 | 1.5" BSP |
| IMP 6 | 0.3 - 6 | 1.5" BSP |
| IMP 10 | 0.3 - 10 | 2" BSP |
| IMPULS | Software | |

PRESSURE GAUGES – GENERAL PURPOSE

40 & 50MM SPECIFICATION

| | |
|----------------|------------------------------------|
| Case | Black painted steel |
| Diameter | 40 and 50mm |
| Tube and shank | Brass / Bronze |
| Connection | 1/8" BSPT Bottom Or Centre Back |
| Scale | Bar and PSIG |
| Accuracy Class | +/- 2.5% FS |



PRODUCT CODES

| MODEL | Range Bar | Range PSIG |
|----------------|-----------|------------|
| PG40* or PG50* | 0 - 2 | 0 - 30 |
| PG40* or PG50* | 0 - 4 | 0 - 60 |
| PG40* or PG50* | 0 - 7 | 0 - 100 |
| PG40* or PG50* | 0 - 10 | 0 - 160 |

* CB = Centre Back. BE = Bottom Entry

63MM

SPECIFICATION

| | |
|----------------|------------------------------------|
| Case | Black painted steel |
| Diameter | 63mm |
| Tube and shank | Brass / Bronze |
| Connection | 1/4" BSPP Bottom Or Centre Back |
| Scale | Dual Scaled, Bar & PSIG |
| Accuracy Class | +/- 2.5% FS |



PRODUCT CODES

| MODEL | Range Bar | Range PSIG |
|-------|-----------|----------------|
| PG63* | -1 - 0 | 0 - 30" Hg VAC |
| PG63* | 0 - 1 | 0 - 15 |
| PG63* | 0 - 2 | 0 - 30 |
| PG63* | 0 - 4 | 0 - 60 |
| PG63* | 0 - 7 | 0 - 100 |
| PG63* | 0 - 10 | 0 - 160 |

* CB = Centre Back. BE = Bottom Entry

PRESSURE GAUGES - 63 & 100MM

63MM

SPECIFICATION

| | |
|--------------------|---------------------------------|
| Case Mat'l | St Steel |
| Diameter | 63 mm |
| Tube & Shank Mat'l | Brass / Bronze |
| Filling | Glycerine Filled |
| Connection | 1/4" BSPP Bottom Or Centre Back |
| Scale | Dual Scaled, Bar and PSIG |
| Accuracy | Class 1.6 |
| Option | St. Steel wetted parts |



PRODUCT CODES

| MODEL | Range Bar | Range PSIG |
|-------|-----------|---------------|
| PG63* | 0 to - 1 | 0 - 30"Hg VAC |
| PG63* | 0 - 1 | 0 - 15 |
| PG63* | 0 - 2 | 0 - 30 |
| PG63* | 0 - 4 | 0 - 60 |
| PG63* | 0 - 7 | 0 - 100 |
| PG63* | 0 - 10 | 0 - 160 |

* CBG – Centre Back Glyc * BEG – Back Entry Glyc.

100MM

SPECIFICATION

| | |
|--------------------|----------------------------|
| Case Mat'l | St Steel |
| Diameter | 100 mm |
| Tube & Shank Mat'l | Brass / Bronze |
| Filling | Dry or Glycerine Filled |
| Connection | 3/8" BSPP Bottom |
| Scale | Dual Scaled, Bar and PSIG |
| Accuracy | Class 1 |
| Connection | 1/2" BSP / NPT Optional |



PRODUCT CODES

| MODEL | Range Bar | Range PSIG |
|--------|-----------|---------------|
| PG100* | 0 to - 1 | 0 - 30"Hg VAC |
| PG100* | 0 - 1 | 0 - 15 |
| PG100* | 0 - 2 | 0 - 30 |
| PG100* | 0 - 4 | 0 - 60 |
| PG100* | 0 - 7 | 0 - 100 |
| PG100* | 0 - 10 | 0 - 160 |

* CBD – Centre Back Dry. CBG – Centre Back Glyc

* BED – Back Entry Dry. BEG – Back Entry Glyc.

PRESSURE GAUGES – LOW RANGE

MAGNEHELIC



- Very low ranges from 0 – 60 Pa
- Gauge and differential measurements
- Air and non-corrosive gases
- Friction free, patented, movement
- Robust construction
- Industry Standard
- Alternative scales
- Transmitter and alarm options

SPECIFICATION

| | |
|-------------|-------------------------------|
| Case Mat'l | Aluminium |
| Diameter | 115mm |
| Diaphragm | Silicon, Over-range protected |
| Connections | 1/8" NPT Hose tails supplied |
| Scale | Pascal, mm WG etc |
| Accuracy | +/- 2% FS |

PRODUCT CODES

| MODEL | Range Pa |
|-----------|-----------|
| 2000-60 | 0 - 60 |
| 2000-100 | 0 - 100 |
| 2000-125 | 0 - 125 |
| 2000-250 | 0 - 250 |
| 2000-500 | 0 - 500 |
| 2000-750 | 0 - 750 |
| 2000-1K | 0 - 1 K |
| 2000-1.5K | 0 - 1.5 K |
| 2000-2K | 0 - 2 K |
| 2000-5K | 0 - 5 K |

PRESSURE SWITCHES - MECHANICAL

MODEL - 8000

SPECIFICATION

| | |
|------------------|-----------------------|
| Pressure Ranges | 0.2 to 600 barg |
| Fluid Temp Range | -20 / +80oC |
| Repeatability | +/-2% |
| Hysteresis | +/- 10%max |
| Contact | SPDT 3 amp @ 230 VAC |
| Connection | 1/4" BSPF |
| Elect Conn | DIN 43650 A Connector |
| Body Mat'l | Aluminium 230 |
| Protection | IP 65 |



PRODUCT CODES

| MODEL | Range Bar | Pmax Bar |
|------------|-----------|----------|
| 8000 - 6 | 0.4 - 6 | 80 |
| 8000 - 20 | 2 - 20 | 80 |
| 8000 - 45 | 4 - 45 | 80 |
| 8000 - 180 | 5 - 180 | 600 |

MODEL - 0180

SPECIFICATION

| | |
|------------------|-------------------------------------|
| Pressure Ranges | 0.3 to 50 barg |
| Fluid Temp Range | -30 / +120oC |
| Hysteresis | 10 – 30% max, switch point |
| Contact Rating | SPCO. 4 amp @ 230 VAC |
| Connection | 1/4" BSPM |
| Elect Conn | IP65 Plug |
| Body Mat'l | Zinc plated steel (St Steel option) |
| Protection | IP 65 Terminal Cap |



PRODUCT CODES

| MODEL | Range Bar | Pmax Bar |
|-----------|-----------|----------|
| 0180 -1.5 | 0.3 - 1.5 | 100 |
| 0180 - 5 | 0.5 - 5 | 100 |
| 0180 -10 | 1 - 10 | 100 |
| 0180 - 50 | 10 - 50 | 300 |

PRESSURE SWITCHES - ELECTRONIC

MODEL - UDS2-V2

SPECIFICATION

| | |
|-----------------|---------------------------------------|
| Pressure ranges | -1 to 400 barg |
| Repeatability | 0.2% FS |
| Temp Range | -25 / +100oC (fluid) |
| Connection | 1/4" BSP male |
| Wetted Parts | 316 St Steel |
| Seals | Viton |
| Supply | 12-36 vdc |
| Outputs | 2 x fully configurable alarm contacts |
| Contact rating | 300mA – Open Collector |
| Display | 2 x LED |



PRODUCT CODES

| MODEL | Range Bar | Pmax Bar |
|----------|-----------|----------|
| UDS2-10 | 0 - 10 | 25 |
| UDS2-50 | 0 - 50 | 120 |
| UDS2-100 | 0 - 100 | 250 |
| UDS2-200 | 0 -200 | 400 |
| UDS2-400 | 0 - 400 | 600 |

MODEL - SW2000

SPECIFICATION

| | |
|-----------------|---------------------------------------|
| Pressure ranges | 0-10 barg up to 0-600 barg |
| Display | 7-segment LED |
| Accuracy class | 0.5% FS |
| Temp Range | -25 / +100oC (fluid) |
| Connection | 1/4" BSP male |
| Wetted Parts | 316 St Steel |
| Seals | Viton |
| Supply | 12-32 vdc |
| Outputs | 2 x fully configurable alarm contacts |
| Contact rating | 500mA (open collector) |



PRODUCT CODES

| MODEL | Range Bar | Pmax Bar |
|------------|-----------|----------|
| SW2000-10 | 0 - 10 | 15 |
| SW2000-50 | 0 - 50 | 75 |
| SW2000-100 | 0 - 100 | 150 |
| SW2000-200 | 0 - 200 | 300 |
| SW2000-400 | 0 - 400 | 600 |
| SW2000-600 | 0 - 600 | 800 |

PRESSURE TRANSMITTERS

MODEL - TX2000

SPECIFICATION

| | |
|-----------------|--------------------------------------|
| Pressure ranges | 0-10 barg up to 0-600 barg |
| Accuracy class | 0.5% FS |
| Temp Range | -25 / +100oC (fluid) |
| Over Pressure | see table below |
| Connection | 1/4" BSP male |
| Wetted Parts | 316 St Steel |
| Seals | Viton |
| Supply | 12-32 vdc |
| Analogue Output | 1 x 4 – 20mA (adjustable span) |
| Alarm Output | 1 x fully configurable alarm contact |
| Contact rating | 500mA (open collector) |
| Display | 7-segment LED |



PRODUCT CODES

| MODEL | Range Bar | Bar/4–20mA | Pmax Bar |
|------------|-----------|---------------|----------|
| Tx2000-10 | 0 - 10 | 0-2.5 > 0-10 | 15 |
| Tx2000-50 | 0 - 50 | 0-12.5 > 0-50 | 75 |
| Tx2000-100 | 0 - 100 | 0-25 > 0-100 | 150 |
| Tx2000-200 | 0 - 200 | 0-50 > 0-200 | 300 |
| Tx2000-400 | 0 - 400 | 0-100 > 0-400 | 600 |
| Tx2000-600 | 0 - 600 | 0-150 > 0-600 | 800 |

MODEL – UPA5

SPECIFICATION

| | |
|-----------------|---------------------------|
| Pressure ranges | 0-1 barg up to 0-400 barg |
| Accuracy class | 0.5% FS |
| Temp Range | 0 – 70 oC (fluid) |
| Connection | 1/4" BSP male |
| Wetted Parts | 316 St Steel |
| Seals | Viton |
| Electrical Conn | DIN Plug - IP65 |
| Supply | 12-32 vdc |
| Analogue Output | 4 – 20mA (2-wire) |



PRODUCT CODES

| MODEL | Range Bar | Pmax Bar |
|----------|-----------|----------|
| UPA5-1 | 0 - 1 | 4 |
| UPA5-4 | 0 - 4 | 10 |
| UPA5-10 | 0 - 10 | 15 |
| UPA5-25 | 0 - 25 | 40 |
| UPA5-250 | 0 - 250 | 400 |
| UPA5-400 | 0 - 400 | 600 |

DIGITAL PANEL METER – UNIVERSAL INPUT

MODEL - 211



- Low Cost
- Universal Input
- Display in engineering units
- 90 – 250 vac supply
- 10 – 32 vdc or vac optional
- Transducer excitation
- IP65 Facia
- Optional analogue output
- 1 or 2 Alarm Relays

SPECIFICATION

| | |
|-------------------|--|
| Display | 4 Digit Red LED |
| Inputs | Thermocouple, mA, mV, DC Voltage, RTD |
| Maths Functions | Tare or Zero, Max / Min memory |
| Supply | 90 – 250 vac |
| Sensor Excitation | 24 vdc @ 35mA 2-wire Supply 10 vdc @ 35mA Bridge Supply |
| Alarms Relays | Rated @ 1 Amp @ 250 vac., 5 Amp @ 30 vdc (1 off min.) |
| Output | 4 – 20mA Max 500 ohms |
| Configuration | Front Panel or PC |
| Size (mm) | 48H x 96W x 100D |

PRODUCT CODES

| MODEL | Tx supply | 1 Relay | 2 Relay | Output |
|-------|-----------|---------|---------|--------|
| 211-A | X | X | | |
| 211-E | X | | X | X |

DIGITAL PANEL METER – FREQUENCY INPUT

MODEL – 280



- Dual Universal Input
- Standard 1/8 DIN case
- Display in engineering units
- IP 65 Facia
- 90 – 250 vac supply
- 10 – 32 vdc or vac optional
- Transducer excitation
- Analogue output
- Dual Alarm Relay option

SPECIFICATION

| | |
|-------------------|---|
| Display | 6 Digit Red LED |
| Inputs | 2 Universal Input channels up to 150 KHz |
| Maths Functions | Preset, Max/Min memory Ch1+Ch2 Ch1–Ch2, count up/down Rate / Total |
| Supply | 90 – 250 vac |
| Sensor Excitation | 5 or 12 VDC up to 100mA |
| Analogue Output | 0–10 VDC, 0–20mA or 4– 20mA |
| Serial Comms | RS422/485 |
| Configuration | Front Panel or PC |
| Size (mm) | 48H x 96W x 173D |

PRODUCT CODES

| MODEL | Tx supply | 2 Relay | Output |
|-------|-----------|---------|--------|
| 283 | X | | X |
| 284 | X | X | X |

DIGITAL PANEL METER – FLOW RATE/TOTALISER

MODEL – DM3600



- Analogue Input
- Flow Rate/Totaliser
- 6 Digit Display
- Batch Control Function
- 90-253 vac supply
- Transducer excitation
- Relay & Analogue Output options

SPECIFICATION

| | |
|-------------------|-----------------------------|
| Input | 4 – 20mA |
| Display | 6 Digit Rate / Totaliser |
| Output Options | 4-20mA active or passive |
| Comms | RS485 Modbus |
| Maths Functions | Square root |
| Supply | 90 – 253 vac |
| Sensor Excitation | 24 vdc @ 35mA 2-wire Supply |
| Configuration | Front panel or PC Software |

PRODUCT CODES

MODEL

| | |
|---------|-------------------------------|
| DM3600A | Flow Rate / Totaliser |
| 3000/02 | Dual N/O Relay option |
| 3000/03 | Isolated 4-20mA output option |

SOLENOID VALVES

DIRECT ACTING - MODEL 21A

SPECIFICATION

| | |
|------------|---|
| Function | 2-way normally open or normally closed |
| Sizes | 1/8" up to 1/2" BSPF |
| Fluid Temp | -10 to +90°C |
| Viscosity | 37 c.stks max |
| Supply | 12 or 24 VDC, 24, 110 or 230 VAC 50Hz |
| Protection | IP65 |
| Body Mat'l | Brass with SS tube |
| Seal Mat'l | NBR Buna |



PRODUCT CODES

| MODEL | Orifice mm | Pmax DC Bar | Pmax AC Bar |
|----------------|------------|-------------|-------------|
| 21A-1/8" * (V) | 2.5 | 13 | 20 |
| 21A-1/4" * (V) | 2.5 | 13 | 20 |
| 21A-3/8" * (V) | 4.5 | 0.9 | 4.5 |
| 21A-1/2" * (V) | 4.5 | 0.9 | 4.5 |

* Enter NO = Normally Open, NC = Normally Closed (V) = Voltage

SERVO-ACTING - MODEL 21H/W

SPECIFICATION

| | |
|----------------|--|
| Function | 2-way normally closed |
| Sizes | 3/8", up to 1 1/2" BSPF |
| Fluid Temp | -10 to +90°C |
| Viscosity | 21 c.stks max |
| Min Press Drop | 0.1 Bar |
| Supply | 12 or 24 VDC, 24, 110 or 230 VAC 50Hz |
| Protection | IP65 |
| Body Mat'l | Brass with SS Internals |
| Seal Mat'l | NBR Buna |



PRODUCT CODES

| MODEL | Orifice mm | Pmax Bar | Kv m3/hr |
|------------------|------------|----------|----------|
| 21H -3/8" (V) | 12 | 20 | 2.5 |
| 21H -1/2" (V) | 12 | 20 | 2.5 |
| 21H -3/4" (V) | 18 | 16 | 6.5 |
| 21W - 1" (V) | 25 | 16 | 10 |
| 21W - 1 1/2" (V) | 40 | 10 | 25 |

Enter (V) = Voltage

NEEDLE VALVE - MODEL FTV

SPECIFICATION

| | |
|-------------|-------------------------|
| Function | Manual Needle Valve |
| Adjustment | 10 operating turns max. |
| Pressure | 30 Bar max. |
| Fluid Temp | 120oC |
| Connections | 1/4" BSPF |
| Body Mat'l | 316 St Steel |
| Seal Mat'l | Viton & PTFE |



PRODUCT CODES

| MODEL | Flow (Air) @ 0.25 Bar | Flow (H2O) @ 0.25 Bar | Kv Max (m3/hr) |
|-------|--------------------------|--------------------------|-------------------|
| FtV1 | 0 - 13 l/min | 0 - 0.45 l/min | 0.063 |
| FtV2 | 0 - 43 l/min | 0 - 1.5 l/min | 0.315 |

BALL VALVE - MODEL BVB/S

SPECIFICATION

| | |
|--------------|--------------------------------------|
| Function | 1/4 Turn Ball Valve |
| Type | Full Bore |
| Pressure Max | Brass 40 Bar, St St 70 Bar |
| Fluid Temp | -20 to +150oC |
| Connections | Screwed BSPF |
| Body Mat'l | Nickel plated brass or 316 St St. |
| Seal Mat'l | PTFE |



PRODUCT CODES

| Size | Brass | St.Steel |
|------|--------|----------|
| 1/4" | BVB-14 | BVS-14 |
| 3/8" | BVB-38 | BVS-38 |
| 1/2" | BVB-12 | BVS-12 |
| 3/4" | BVB-34 | BVS-34 |
| 1" | BVB-10 | BVS-10 |

USEFUL CONVERSION FACTORS

FLOW UNIT CONVERTOR

| From | To cm ³ /min | To l/min | To l/hr | To m ³ /hr |
|----------------------|----------------------------|-------------|------------|--------------------------|
| cm ³ /sec | 60 | 0.06 | 3.6 | 0.0036 |
| cm ³ /min | 1 | 0.001 | 0.06 | 0.00006 |
| l/min | 1000 | 1 | 60 | 0.06 |
| l/hr | 16.67 | 0.0166 | 1 | 0.001 |
| m ³ /hr | 16670 | 16.67 | 1000 | 1 |
| CFM | 28320 | 28.32 | 1699.2 | 1.6992 |
| CFH | 471.9 | 0.4719 | 28.32 | 0.02832 |
| I.GPM | 454.6 | 4.546 | 272.76 | 0.27276 |
| I.GPH | 75.77 | 0.07577 | 4.546 | 0.004546 |
| US.GPM | 3785 | 3.785 | 227.1 | 0.2271 |
| US.GPH | 63.08 | 0.06308 | 3.785 | 0.003785 |

PRESSURE CONVERTOR

| From | To mbar | To bar |
|--------------------|------------|-----------|
| psi | 68.947 | 0.069 |
| atms | 1013 | 1.013 |
| " WG | 2.486 | 0.0025 |
| Kg/cm ² | 980.662 | 0.981 |
| mm WG | 0.0977 | 0.000098 |
| mm Hg | 1.329 | 0.001 |
| kPa | 10 | 0.01 |

FLOWMETER SIZING

Gas To Air equivalent

| Fluid | Multiplier |
|-------------------|------------|
| Acetylene | 0.948 |
| Ammonia | 0.767 |
| Chlorine | 1.565 |
| Ethylene | 0.984 |
| Hydrogen Chloride | 1.122 |
| Hydrogen Sulphide | 1.085 |
| Neon | 0.835 |
| Nitrous Oxide | 1.233 |
| Sulphur Dioxide | 1.487 |

Liquid To H₂O equivalent

| SG | Multiplier |
|------|------------|
| 0.70 | 0.819 |
| 0.80 | 0.882 |
| 0.90 | 0.942 |
| 1.00 | 1.000 |
| 1.10 | 1.056 |
| 1.20 | 1.111 |
| 1.30 | 1.166 |
| 1.40 | 1.218 |
| 1.50 | 1.271 |

TECHNIQUIP

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