

Brooks Instrument Information

Mass Flow Controller SLA5850 Ethernet IP/ Profinet

Enables light-speed exchange of multiple data to improve your 4.0 processes.

Compatible with all PLCs (Emerson DeltaV, Rockwell, Allen-Bradley, Siemens).

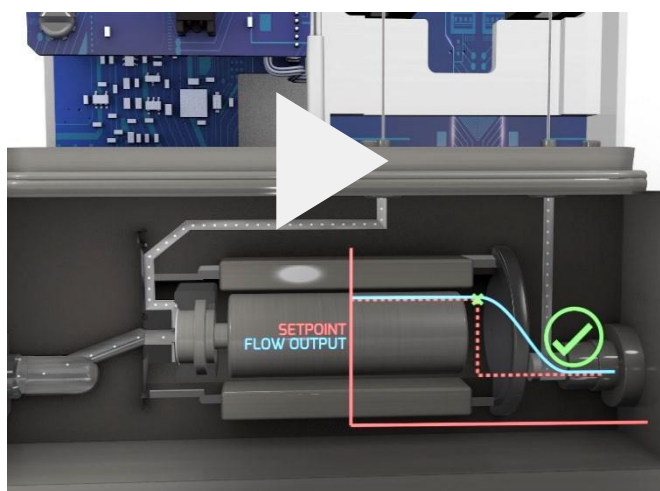
- ✓ **Unrivalled precision:**
 - ± 0.6% of setpoint (20%-100% F.S.)
 - ± 0.12% F.S. (< 20% F.S.). F.S.= full scale
- ✓ **STOCK equipment:** unmatched on the market
- ✓ **Analog / EtherNet IP/ ProfiNet / EtherCat / DPV1 / RS485 / FieldBus**
- ✓ **Turndown Ratio 100:1, Option 250:1**
- ✓ **Independent RS485 service port (jack plug)**
- ✓ **Predictive maintenance made easy**
- ✓ **Avoids unnecessary disassembly of MFCs**
 - Integrated Web interface, secure remote connectivity
 - Simplifies operation, configuration, audit controls and access to performance diagnostics
 - Easy monitoring of operating parameters & alarms
 - Display of concentration values and secondary measurements
 - Combustion, Gas & air purity, Separation units, Biogas, Metallurgy, R&D, CEMS



Serv'Instrumentation is currently in the process of being ISO 17025 certified by September 2024.

New Coriolis Quantim Mass Flow Controller

- ✓ **3rd generation of the Quantim version**
- ✓ **Precision:** 0.2% of setpoint for liquids
0.5% of setpoint for gases
- ✓ **Significantly improved zero stability X3**
- ✓ **Ultra-short response times**
- ✓ **Analog / RS485**
- ✓ **Other protocols: EtherNet IP/ ProfiNet / EtherCat, planned for 2024**
- ✓ **Independent RS485 service port (jack plug)**
- ✓ **Same BEST software as SLA5850, free of charge**
- ✓ **Predictive maintenance made easy**



Rosemount Information

Rosemount 3051 Pressure Transmitter: New Features

- ✓ Advanced software with new user interface
Traceability of calibrations, alerts & SIL tests
- ✓ Backlit graphic LCD display
Better readability, multi-language, choice of point or decimal point position, absolute or relative units, display rotation, Pressure, Flow, Totalized flow, Level, Volume display.
- ✓ Bluetooth communication for configuration and maintenance
- ✓ Guide to verification testing in SIL applications
- ✓ Advanced diagnostics
Plugged line(s) detection, Loop integrity
- ✓ Quick start buttons
Zero trim, Re-range, Loop test



Rosemount Hydrogen 3051 & 3051SHP Pressure Transmitter

H2

35 years of experience in manufacturing this model

- ✓ Uncertainty: +/- 0.04% of calibrated range (TG)
- ✓ Uncertainty: +/- 0.025% of calibrated range (SHP)
- ✓ Static relative pressure measurement up to 1379 bar
- ✓ Differential pressure measurement from mbar to 10.3 bar with static pressure up to 1034 bar
- ✓ 5 µm gold-plated stainless-steel membrane
- ✓ SIL2 certification
- ✓ 5-year (TG), 10-year (SHP), 15-year (Ultra) warranty
- ✓ Wireless, Hart



Keller Information

H2

Pressure Transmitter Keller Hydrogen 23SYEi

- ✓ Accuracy: +/- 0.25% F.S. (Full Scale)
- ✓ Total error band: +/- 0.7% F.S. @ -10...80 °C
- ✓ Static pressure measurement up to 900 bar
- ✓ All-welded, gold-plated stainless-steel membrane
- ✓ Long-term stability: <= +/- 0.2% F.S.
- ✓ All Stainless-Steel Wetted Parts
- ✓ ATEX & IECEx certifications



Kammer Information

Micro-Flow Control Valve 80 000

Body and seat characteristics

- ✓ Compact
- ✓ Allows for very low Cv, equal characteristics, highly reproducible percentages
- ✓ Ideal for chemical injection applications and pilot plants.
- ✓ Size ¼ with ¼" NPT, G ¼" process connection
- ✓ Pressure class CL 2500 / PN400
- ✓ Body material 1.4571 (other materials on request)
- ✓ Cv range 0.000063 - 0.29
- ✓ Packing type: PTFE (<200°C) or Grafoil (>200°C)
- ✓ Low parabolic flow
- ✓ Actuators and Positioners
 - P1 Pneumatic Actuator
 - Fail Open / Fail Close
 - Innerspring
 - Optional positioner
 - Arch or archwire design



Low-Flow Control Valve 385 000

Body and seat characteristics

- ✓ Various options for proven internal/external sealing on gases such as hydrogen with bellows, cryogenic or very high temperatures with high or low extensions.
- ✓ Suitable for high temperature changes
- ✓ Integrated actuator connection
- ✓ Accepted in the most demanding applications
- ✓ Body available in cast (PN 160) or forged (PN400) versions
- ✓ Stainless steel and carbon steel body
- ✓ Size ½ inch
- ✓ Various types of end connections (flanged, screwed, welded, special) Size ½ inch
- ✓ Restraint and seat with extremely low tolerances. The restraint adapts to the seat
- ✓ 10 mm stroke
- ✓ Actuators and Positioners
 - Stainless steel P1, Replaces P0 and P1 Aluminum
 - Standard spring sets
 - Direct-mount Logix positioner option



H2

Fluid Solutions Information

Our **ENGINEERING** and **MANUFACTURING DEPARTMENTS** can meet your specifications for the complete production of fluid measurement and control sub-assemblies. From functional analysis of schematics to commissioning, our consulting engineers will be happy to help you. Our 35 years of know-how enable us to support you in a wide range of applications.

Here are a few examples of recent applications that are relevant to you:

H2

H2-Humid Air Injection Electrolyzer/Heat pump Applications

- ✓ Single-cell water electrolysis test bench (Proton Exchange Membrane) PEM
- ✓ Steam electrolysis test bench 100 cm²
- ✓ PEMFC & SOFC fuel cell bench
- ✓ Flow- and temperature-controlled UHP water injection
- ✓ H₂/O₂/Air/Argon injection
- ✓ Steam injection
- ✓ Delta-P hold between anode & cathode compartments
- ✓ O₂ & H₂ analysis
- ✓ Integration of electrochemical modules (current, voltage)



Algae Application Gas Mixer (Air+CO₂+Other) With Ph Control

- ✓ Test bench for screening microalgae with high bioremediation potential for CO₂, SO₂, NO₂ and NO in flue gases.
- ✓ Capture & transformation by adsorption & photosynthesis.
- ✓ 5-way gas mixer with flow/pressure control
- ✓ Uniform distribution across 10 reactors
- ✓ Temperature hold
- ✓ Multiplexed sampling loop
- ✓ Analysis of CO₂, NO, NO₂, SO₂, and O₂ (IR, UV, Eo₂)



Analytical Instrument Calibration Diluents (μgc, MS)

- ✓ Custom gas mixing management
- ✓ Multi-gas calibration
- ✓ Variable source concentration
- ✓ Automatic calculator
- ✓ Sulfinert treatment for sulfur compounds
- ✓ Humidity management



Find out more:

www.servinstrumentation.fr/solutions.php