

TRILLIUM Measurement And Control



FLOW INSTRUMENTATION AND CALIBRATION SPECIALISTS

TRILLIUM Measurement And Control

BROOKS THERMAL MASS

Brooks thermal mass technology provides accurate measurement and control of gas and liquid flow. Full scale capacities range from 3 sccm to 2400 slpm. Options include:

- FOUNDATION Fieldbus I/O
- Analog I/O 4 – 20 mA and 0 – 5 Vdc
- RS-485/232, Profibus-DP and DeviceNET
- 4500 psi pressure rating
- NEMA 4X housing
- Fast response times
- Class I Division 2 rating
- VCO, VCR, NPT, Compression and downport connections
- Electro polished all metal construction for high purity applications
- Flow meter only or controller

WINTERS GAUGES & THERMOMETERS

- PRESSURE GAUGES
- THERMOMETERS & THERMOWELLS
- PRESSURE SWITCHES
- DIAPHRAGM SEALS



BIOS PORTABLE CALIBRATOR

Bios International designs and manufactures portable gas flow calibrators. Accuracies range from +/- 0.75% of rate provided by the **Definer 220** to +/- 0.15% of rate for the ML-800 series. Flow capacities are extremely low up to 500 slpm. BIOS IS ISO 17025 CERTIFIED.



BROOKS QUANTIM

The **Quantim** is your 3-in-1 low flow solution. It is composed of a Coriolis flow sensor, PID controller and a control valve. The Brooks Quantim can monitor flows of 1 gram/hr to 28 kg/hr. Enclosures include NEMA 4X, IP65, IP40 and explosion proof.

Coriolis technology allows for direct mass flow measurement independent of fluid type (gas, liquid or mixture) and process variations. You can monitor volume or mass flow, density and temperature all with unsurpassed accuracy and repeatability.



ELDRIDGE THERMAL MASS

Eldridge thermal mass flow meters have very high accuracy and flow capacity. There are two configurations, inline or insertion. Insertion units can be used in pipes and ducts of up to 84 inches and can be calibrated to 32,000 sfpm. Enclosures are NEMA 4X for safe areas or explosion proof for Class I Division 1 and come in a variety of process connections. The new flow averaging tubes (FAT™) are ideal for installations with extremely short runs or as replacements for other measuring devices. All units are supplied calibrated to NIST.



BROOKS ROTAMETERS

Brooks Instrument takes simple flow indication to another level.

- Metal tube, high pressure up to 6000 PSIG
- Metal tube, high temperature up to 1000 F
- Metal tube, low temperature (Cryogenic)
- Tefzel lined metal tube for harsh fluids
- Glass tube economical meters
- Fully plastic economical meters
- Low flow purgemeters & flow controllers
- 4 – 20 mA transmitter & high/low alarms
- Dual scales



BROOKS
INSTRUMENT

Bios
Driving a Higher Standard
in Flow Measurement™



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DANIEL TURBINES

Daniel series turbines have rugged internals that require little maintenance. Sizes range from 1/2" to 24" with maximum capacity of 50 000 USGPM. Various options available including Teflon coated rotors for ethanol metering/blending applications.

DANIEL ULTRASONIC

This high accuracy meter (+/-0.1% of rate) was made for custody transfer applications. Low maintenance, no pressure drop, and rangeability of over 100 to 1.

DOSTMANN ELECTRONIC

Measure with confidence using Dostmann Electronic precision table top and handheld instruments to monitor and log: temperature, pressure, humidity, airflow and sound level. These units are suitable for use in quality assurance labs, with temperature accuracy of +/- 0.03 °C.

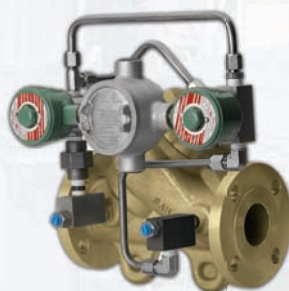
DIGITAL CONTROL VALVES

Available in 2"-16" sizes, functions include:

- Digital control
- Pressure relief
- Pressure reducing
- Two-stage control

PRESETS & REGISTERS

Daniel and Brodie flow meters are available with mechanical or electronic registers. The electronic registers provide flow, totalization and 4-20 mA output. Electronic presets are also available for precise batching and blending of products.



BRODIE PD METERS

High viscosity fluids are difficult to accurately meter using other technologies, but with the Brodie oval gear or birotor meters you achieve accurate measurements which improve with increased viscosity. The oval gear meters are easy to maintain and are available in CIP (clean-in-place) design for food applications. The birotor meters have a repeatability of 0.01% and an accuracy of +/- 0.1% of rate. Sizes range from 1-1/2" to 16", with 150 to 600# flanges available. Meters with electronic outputs are explosion proof and certified for Class I Division 1 environment.



FLOW COMPUTER

The Daniel S600 is the control centre for your flow management. Applications include: fiscal measurement, custody transfer, batch loading, meter proving, multi-meter runs and flow control.

STRAINERS AND AIR ELIMINATORS

Strainers and air eliminators are essential for a complete flow measuring system. They help maintain accurate flow measurements and protect your investment against early failure due to air or foreign particles in the fluid stream.

DANIEL®

BRODIE
International

EMERSON™
Process Management

TRILLIUM Measurement And Control



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PRECISION DIGITAL

MONITOR AND CONTROL

- LEVEL
- FLOW
- TEMPERATURE
- PRESSURE



DELTA CONTROLS

- FLOW SWITCHES
- LEVEL TRANSMITTERS
- PRESSURE TRANSMITTERS
- TEMPERATURE TRANSMITTERS IN CLAUS THERMAL REACTORS

SOLID OR LIQUID APPLICATIONS

TUTHILL FLOW METERS

- OVAL GEAR METERS
- NUTATING DISC METERS
- ELECTRONIC REGISTERS
- LPG - SYSTEMS
- TANK TRUCK METERS
- BATCHING SYSTEMS



ECONOMICAL - HIGH ACCURACY AT A LOW COST

TRILLIUM IS AT YOUR SERVICE.....

- APPLICATION ASSISTANCE
- START UP
- SERVICE & REPAIR
- CUSTODY TRANSFER

- SHIP LOADING
- TERMINAL AUTOMATION
- TRUCK LOADING
- RAILCAR LOADING

OUR FACILITY IN MARKHAM, ONTARIO PROVIDES FLOW CALIBRATION SERVICE TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS TECHNOLOGY (N.I.S.T) AND MEASUREMENT CANADA.

EXPERIENCED TECHNICIANS PROVIDE EXCEPTIONAL SERVICE AND QUICK TURNAROUND TIME, ALLOWING YOU TO RETURN YOUR METERS INTO SERVICE AND ENSURING ACCURATE RESULTS.

WE SERVICE AND CALIBRATE FLOW METERS OF ALL TYPES, SIZE AND RANGE. FOR METERS THAT CANNOT BE REMOVED FROM SERVICE, OUR MOBILE PROVER IS AVAILABLE TO TRAVEL ACROSS CANADA AND PROVIDE CALIBRATION SERVICE AT YOUR FACILITY.

- GAS CALIBRATION AND SERVICE
- LIQUID CALIBRATION AND SERVICE
- ONSITE PROVING AND SERVICE

REGISTERED BY MEASUREMENT CANADA TO PERFORM INSPECTIONS PERSUANT TO THE WEIGHTS AND MEASURES ACT

