
Monad Electronics

G1-805, Sitapura Industrial Area,
Tonk Road, Jaipur-302022

Phone:- +91-141-2771119, Fax:-+91-1412550005

Website:- www.monadindia.com

Email:- mail@monadindia.com, monadindia@yahoo.com



Introduction



Winner of National Award for year 2009-2010 in R&D

Monad Electronics is An ISO 9001:2015 certified company, which has been involved for over 20 year in the business of designing, manufacturing and export of Electronic Industrial products, Testing equipments , sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

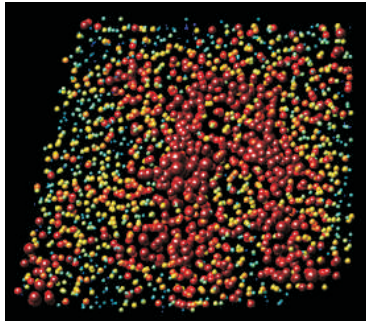
Monad is specialized in providing high end and high accuracy customized Force Transducers, Multi-Axial Force Transducers and Torque Sensors. Monad is an expert in providing import substitutes of high end Load Cells, Safe Load Indicators, etc

We are supplying to leading industries and government institutions and are also exporting our products to USA, Germany, Belgium, Turkey, Australia, U.A.E., Singapore, Spain, Brazil, New Zealand, Philippines, UK, Croatia and to the African countries.

Centripetal Flow meter

The Centripetal Flow meter from Monad is a Solid-Particle Mass Flow Meter that is durable, accurate, maintenance-free, compact, and cost-effective. It is unique and positioned to replace weigh belts, impact meters, loss in weight meters, and static weigh scales, where accuracy, low maintenance, and zero drift is paramount.

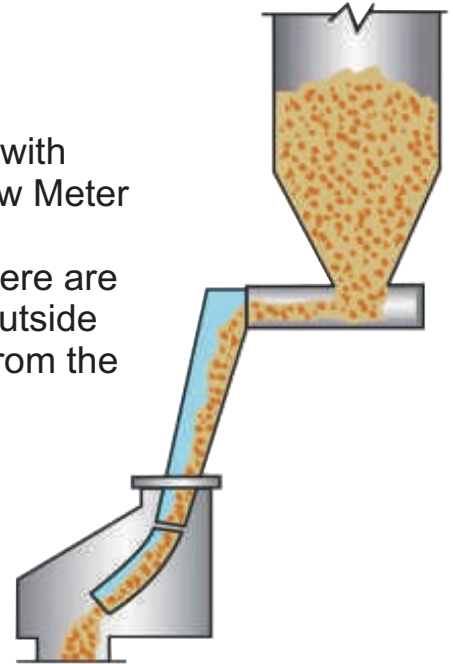
Accuracy is not affected by changes in product elasticity, density, or shape. The meter offers a typical accuracy of $\pm 0.25\%$ of full-scale reading at calibrated flow rate and is repeatable within $\pm 0.1\%$. The Monad's Centripetal Flow Meter has NO moving parts. Calibration and installation are simple to perform.



Centripetal Flow meter

Solid Construction/Low Maintenance

Sturdy high-grade aluminum/steel alloy construction with stainless steel flow paths makes the Monad Solid flow Meter a very low maintenance instrument. It rarely requires re-calibration because there are no moving parts. There are no belts or drives. Plus, the electronics are located outside the process stream and are not subject to vibration from the manufacturing process.



Centripetal Flow meter

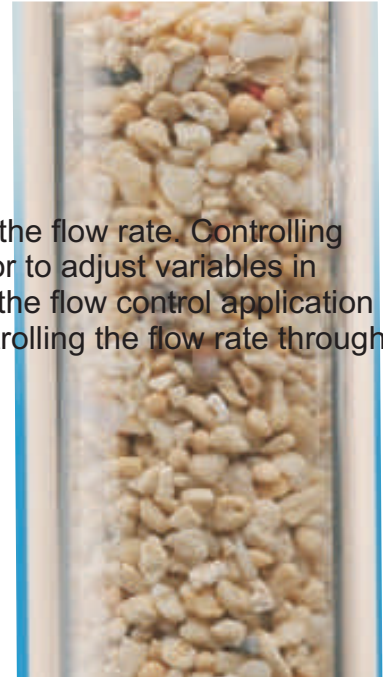
Totalizing applications include:

- On Line Batching
- Filling
- Inventory Control

The flow control output is a "real time" output that can govern the flow rate. Controlling VFD Drive or a valve with an analog signal allows the operator to adjust variables in the process to keep flow at the required output. For example, the flow control application can allow the feeding of an extruder at a constant rate by controlling the flow rate through the rotary valve.

Flow control applications include:

- Ratio control of two or more product streams
- Extruder feed control
- Continuous flow rate



Centripetal Flow meter



Centripetal Flow meter

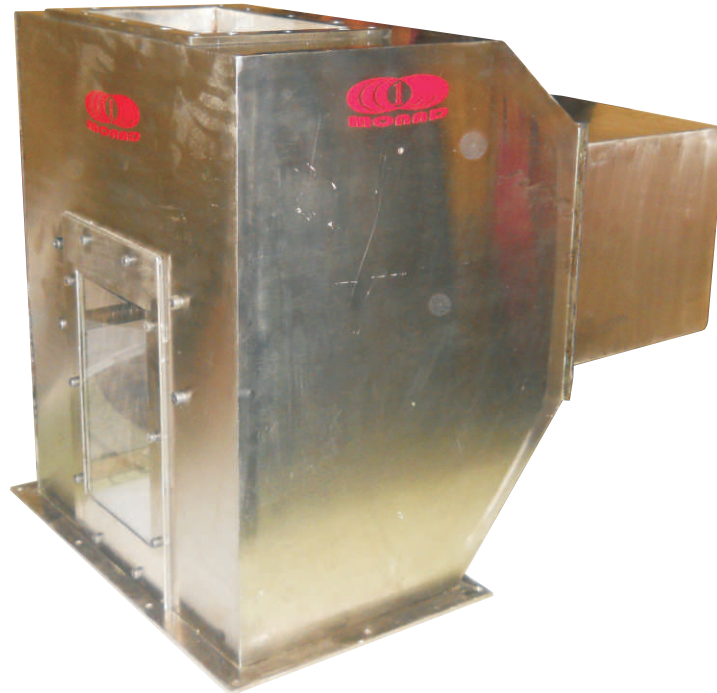
Flexible

The Monad Solid Flow Meter is not affected by changes in product elasticity, density, shape or friction. Fluctuations in flow rate don't impact its accuracy. The linearity of the zero friction formula gives the Solid flow Meter its ability to measure at various densities and turndown ratios while maintaining near perfect accuracy.

Turndown Ratio

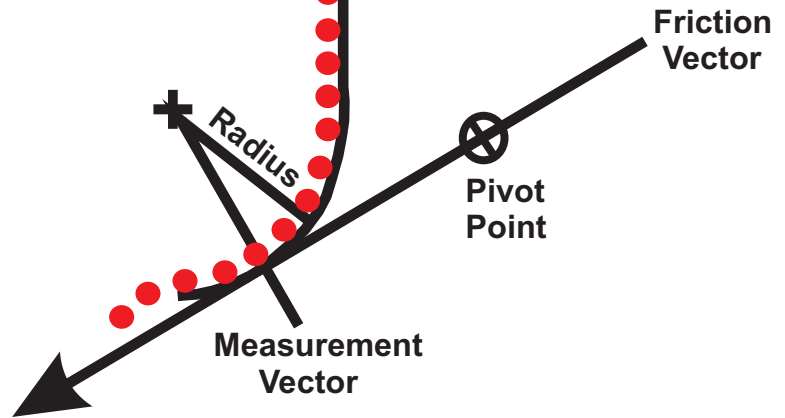
The Monad Flow Meter has a minimum 15:1 turndown capability while maintaining accuracy. The meter's unique design enables it to identify and cancel the friction component of the mass flow. The resulting signal is flow = mass rate, which is linear. The linearity allows the meter to work at 0.25% accuracy full scale. This means it is not affected by the wide variances typical to process flow.

Centripetal Flow meter



Centripetal Flow meter

$$\text{Force} = \frac{\text{Mass} \times \text{Velocity}^2}{\text{Radius}}$$



Centripetal Flow meter

Technical Specifications :

Power supply	220 V / 50 Hz AC
Operating Temp. range	
Sensor	0-80°/0-150°/0-250° C
Digitizer	0-50°C
Flow material	Powder, Granule, Grains, any flowable material
Typical Capacity	20 Kg -1000 T/Hour
Inlet Size	25-1250 mm
Outlet Size	25-1250 mm
Accuracy	± 0.1% RO