



AW Company

Rev. 02/05

## ACM Series Mass Coriolis Flow Meter



### Technical Specifications:

- Aggressive or contaminated fluids
- Maximum temperature 250° F
- Pressure rating up to 2900 PSI
- Vibration resistant
- Accuracy of  $\pm 0.5$  % of reading
- Excellent purging & sterilization
- Three analog outputs
- BSP, Flange or Tri-Clamp connections

### **What is a ACM Mass Coriolis Meter?**

Utilizing the Coriolis principle, the ACM series of flow meters are superior process control tools that allow real-time measurement of density and flow in liquids, slurries and gases. The ACM line features excellent accuracy and large turndowns in single or dual tube designs. The meters feature no moving parts and smooth flow tubes of 316 stainless steel resulting in a design that is easy-to-clean and maintain. As material flows through the meter, the flow tube is vibrated and the resulting Coriolis forces are measured to determine mass flow rate and density. This principle has virtually universal applications, from industrial paints to sanitary beverages and from non-Newtonian fluids to particle-filled materials. In addition to mass flow and density, the ACM meters provide measurements of temperature and volumetric flow. A wide range of analog or pulse output and local or remote display options are available.



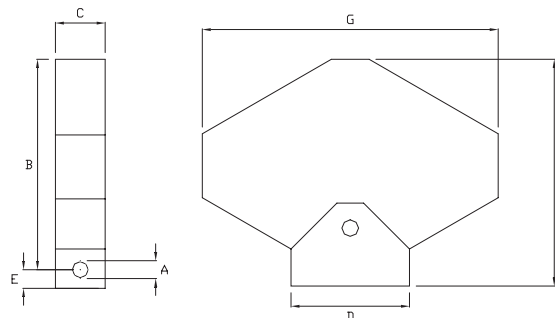
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# ACM Series Mass Coriolis Flow Meter

## Meter Technical Data

### Materials of Construction:

<b>Body:</b>	Stainless Steel DIN 1.4571 (AISI 316Ti)
<b>Temperature:</b>	-20°F to 250° F
<b>Pressure:</b>	2900 PSI Max.
<b>Electrical Connection:</b>	9-Pin contact connector
<b>Porting:</b>	1/2" BSP standard Adapters Available: Flange or Tri-Clamp
<b>Pressure Drop:</b>	Approx 28 PSI at Mmax (measured with water)
<b>Maximum Cable Length:</b>	65 Feet between transducer & transmitter
<b>Ingress Protection:</b>	IP67
<b>Accuracy:</b>	± 0.5% of reading

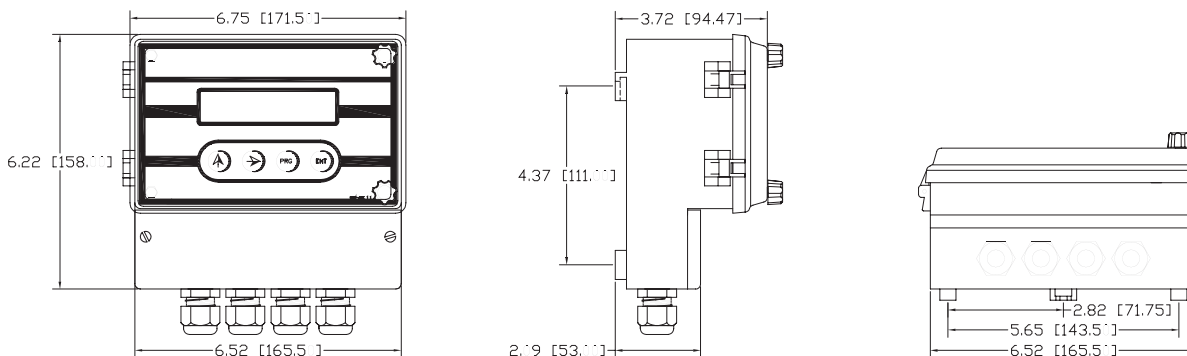


Model Number	Flow Range KG / Hour	Flow Range Grams / Minute	Internal Diameter
ACM 300	5 to 300	83 to 5,000	4 mm
ACM 600	9 to 600	150 to 10,000	4 mm
ACM 1500	25 to 1,500	416 to 25,000	8 mm
ACM 3000	50 to 3,000	833 to 50,000	8 mm

Dimension in inches	ACM300 ACM600	ACM1500 ACM3000
A	1/2" BSP	1/2" BSP
B	6-1/4	10-1/5
C	2-1/3	2-1/3
D	3-1/4	5-1/2
E	7/8	7/8
F	7-1/8	11-1/16
G	8-7/16	13-3/4

## Transmitter Technical Data

<b>1 Analog Output:</b>	4-20mA active, 2 wire galvanically separated, free programmable for mass, density, temperature and total
<b>2 Analog Outputs:</b>	0-5V (30 mA) free programmable for mass density, temperature and total
<b>Interface:</b>	RS 485
<b>1 Pulse output:</b>	Free adjustable for mass flow, open collector $I_{CE} < 30V$ , $I_{CE} < 100$ mA
<b>Switch output:</b>	Open collector with batch function $I_{CE} < 30V$ , $I_{CE} < 100$ mA
<b>2 Switch Inputs:</b>	Passive on >4V, off <1V programmable functions
<b>Display:</b>	2 line alpha numerical display
<b>Supply Voltage:</b>	14-26 VDC, 100 mA
<b>Temperature:</b>	0 up to 122° F
<b>Housing:</b>	Wall-mounted housing



Products may be subject to change without notice - Contact factory for current information