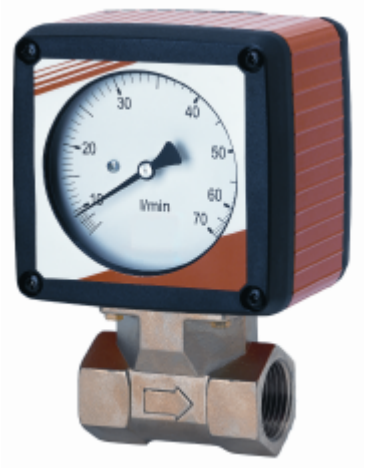
A6-RCD Differential Pressure Flow meter and Transmitter



Compact digital electronics



Analog & mechanical indicator

Features

- 1-7 to 100-600 USGPM Liquids
- 2.5-25 to 300-1700 SCFM Gases
- 1/2” to 3” line sizes
- Bronze or 316 Ti SS construction
- Analog or digital indication
- 4-20 mA and relay output available
- Custom calibrations for special densities and viscosities

The Aysix RCD differential pressure flow meter measures flows of liquids and compressed gases using the orifice principle. The orifice located in the flow body, generates a differential pressure which varies with flow rate. The differential pressure is applied to a measuring bellow. The measuring bellow is linked either to a mechanical indicator, or to a Hall effect sensor, which is input to a compact or full featured electronic display and controller.

The unique design features a single measuring bellows making its accuracy unaffected by system pressure fluctuations. The meter movement is a single fulcrum lever design which is simple, yet very reliable, with a minimum of wear parts.

Transmitter Specifications:

A6-RCD-C Compact Electronic Series

Input power: 24 Vdc, +/- 20%, 80 mA
3 digit LED display
PNP or NPN open collector, 300 mA
Flow Transmitter: 4-20 mA 3 wire
Housing: 304SS, Nema 4X
Electrical connection: Micro-DC male, 4 pin

Specifications

Flow Ranges:
Liquids 1-7 GPM through to 100-600 GPM
Gases 2.5-25 SCFM through to 300-1700 SCFM
Accuracy: +/- 3% of full scale
Repeatability: +/- 1% of full scale
Maximum temperature:
Mechanical display: 212 deg. C
Digital display: 176 deg. F
Maximum pressure: 580 psig
Maximum pressure drop: 5 psig
Indicator housing: Epoxy coated aluminum polycarbonate, Nema 4X
Wetted materials:
Bronze version: Bronze, 316 ti SS, Buna N
Stainless steel version: 316 Ti SS, viton

Aysix technologies
2595 Dunwin Drive, Unit 2
Mississauga, On L5L 3N9
Toll Free: 1-800-595-0514
Tel: 905-569-6246 Fax: 905-569-6244
E mail: controls@cancoppas.com
www.cancoppas.com

Represented in Quebec by IMC Coppas Québec Ltée
Tel: 450-424-1370 Fax: 450-424-1381
E mail: controls@imccoppas.com

Liquid Flow meters

Range GPM	Bronze	Stainless steel	Connection
1-7 2-11	A6-RCD-1105G A6-RCD-1110G	A6-RCD-1205G A6-RCD-1210G	N4 = 1/2 " NPT
2-17 2.5-22	A6-RCD-1115G A6-RCD-1120G	A6-RCD-1215G A6-RCD-1220G	N5 = 3/4" NPT
5-35 8-44	A6-RCD-1125G A6-RCD-1130G	A6-RCD-1225G A6-RCD-1230G	N6 = 1" NPT
10-70 20-110	A6-RCD-1135G A6-RCD-1140G	A6-RCD-1235G A6-RCD-1240G	N8 = 1 1/2 " NPT
20-180 25-225	A6-RCD-1145G A6-RCD-1150G	A6-RCD-1245G A6-RCD-1250G	N9 = 2" NPT
30-270 50-400	A6-RCD-1155G A6-RCD-1160G	A6-RCD-1255G A6-RCD-1260G	NB = 3" NPT
100-600	A6-RCD-1165G	A6-RCD-1265G	NB = 3" NPT

Gas Flow meters

Range SCFM	Bronze	Stainless steel	Connection
2.5-25 5-40	A6-RCD-1105S A6-RCD-1110S	A6-RCD-1205S A6-RCD-1210S	N4 = 1/2" NPT
10-60 15-75	A6-RCD-1115S A6-RCD-1120S	A6-RCD-1215S A6-RCD-1220S	N5 = 3/4 " NPT
25-115 20-140	A6-RCD-1125S A6-RCD-1130S	A6-RCD-1225S A6-RCD-1230S	N6 = 1" NPT
30-240 50—400	A6-RCD-1135S A6-RCD-1140S	A6-RCD-1235S A6-RCD-1240S	N8 = 1 1/2" NPT
100-550 100-700	A6-RCD-1145S A6-RCD-1150S	A6-RCD-1245S A6-RCD-1250S	N9 = 2" NPT
150-850 200-1200	A6-RCD-1155S A6-RCD-1160S	A6-RCD-1255S A6-RCD-1260S	NB = 3" NPT
300-1700	A6-RCD-1165S	A6-RCD-1265S	NB = 3" NPT

Analog mechanical indication

Indication	Flow Direction	Indicator position
Z = 270 degrees	L = left to right	L=left of pipe
Z = 270 degrees	R = right to left	R=right of pipe
Z = 270 degrees	T = down	T = above pipe
Z = 270 degrees	B = up	B = below pipe

Compact digital electronics

Indication	Power Supply	Output
C = Compact Electronics	3 = 24 Vdc	OR = 2 PNP switches 0M = 2 NPN switches 4P—4-20 mA + 1 PNP switch 4N = 4-20 mA + 1 NPN switch

Special Calibration

-C Calibration for S.G. other than water
Required if SG < .95 or > 1.05
-V Calibration for viscous liquids
Required if viscosity is > 10 CSTKS

Example

Model A6-RCD-1125G-N6-Z-L-T =
bronze flow meter, 5—35 USGPM, 1 " NPT
flow from left to right with analog indicator on top of pipe, water calibration