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Flow Monitors - Flow Switches
Excess Flow Valves - Flow Meters

Welcome to CTE Chem Tec Equipment.
Leading manufacturers of Flow Monitors, Flow Meters, Flow Switches, and Excess Flow Valves for 35 years.

Flow Switches (also known as Flow Monitors and Flow Sensors) give switch contact at a predetermined flow rate. Flow Meters provide varying electrical output with fluid flow. Excess Flow Valves are normally open valves that close automatically at a predetermined flow rate.

We specialize in the lower flow ranges -- i.e. 120 SCFM air, 20 GPM water, or less. Flow Switches have fixed and adjustable models. All categories have a variety of flow ranges and pipe sizes.

CTE is the only manufacturer of all Teflon ® Flow Switches and Flow Meters.

Important Notice: All of our products containing reed switches are now available with digital solid state switching.

www.flw.com/chemtec Distributed By FLW Inc, *(800) 576 -6308*

For economical monitoring of flows of corrosive and non-corrosive gases and liquids.

Recognized File E75356

Recognized 73/23/EEC,93/68/EEC

Monitors flows from 10 cc/m air, in line configuration.

Gas Chromatography

Analyzers

Filter Maintenance

Metering Equipment

Corrosive Chemicals

Gas Generators

Features

- Adjustable Flow Monitor
- High Resolution
- Works in Very Low Flow Environments
- Materials: PVC
- Confirms: Normal flow conditions

- Minimal Pressure Drop
- Gas and Liquid Flow Sensor
- Senses: high flow, low flow
- Output: Switch Contact

Operation

With no flow present, the magnetic piston is held at the flow tube inlet by magnetic repulsion of the fixed magnet at the opposite end. As flow is established the piston is displaced toward the magnetic end plug and a major portion of the flow is bypassed through the flow tube orifice into the annular space. At the adjustment point the magnetic piston actuates the reed switch. On decreasing flow the switch deactuates.

- Actuation points for air at 68 F and 14.7 PSIA with increasing flow.
- Deactuation (decreasing flow) averages 40% less than actuation (increasing flow).
- Repeatability ± 2%
- Corrections must be used for other gases, line pressures and temperatures. Please consult your representative of the factory.
- Unit will pass greater flows.

Calibration Range - Pressure Loss Table

MODEL	AIR SCCM (SCFH)		WATER ML / M (GPH)		• P TO ATMOSPHERE MBARS (IN. of WATER)	
	MIN	MAX	MIN	MAX	MIN	MAX
CCM-00	10 (.021)	150 (0.32)	1 (0.016)	5 (0.08)	2.49 (1.0)	19.9 (8.0)
CCM-010	150 (0.32)	1000 (2.12)	8 (0.13)	180 (2.9)	0.99 (0.4)	17.4 (7.0)
CCM-015	500 (1.06)	6000 (12.7)	20 (0.32)	370 (5.9)	1.74 (0.7)	19.9 (8.0)
CCM-125	6000 (12.7)	16000 (33.9)	65 (1.03)	500 (7.9)	3.73 (1.5)	12.4 (5.0)

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Switch Data	
SPST Hermetically Sealed Reed Switch	**SPDT** Hermetically Sealed Reed Switch
Max Switching Voltage DC (V) 200 AC (V) 150	Max Switching Voltage DC (V) 175 AC (V) 120
Contact Rating DC (W) 50 AC (VA) 70	Contact Rating DC (W) 5 AC (VA) 5
Max. Switching Current DC (A) 1.0 AC (A) 0.7	Max. Switching Current DC (A) .25 AC (A) .25

Leads	
SPST Leads 18 in. min. from body 22 AWG, TFE insulation.	
SPDT (optional) Leads 18 in. min. from body 24 AWG, TFE insulation. • green - N.O. • blue - N.C. • white - Common	

Above values for resistive loads only. For inductive loads, surge current and rush current -- contact protection is required; consult your local representative. SPDT is UL recognized.

Specifications

Unit	Weight Lbs (Kg.)	Working Pressure PSIG (BARG)	Wetted Parts	Seals

PVC	6(170.1)	100 (6.89)	PVC, Epoxy	Buna N

Fluid Ports: Inlet 1/8" FNPT / Outlet 1/4" FNPT

Temperature Operating Range: 32° to 140° F (0° to 60° C). For other temperature ranges, consult factory.

Installation: Mount vertically with inlet port at the top. A 10 micron filter is recommended.

How to Order

CCM Model	125 Calibration Points	SPDT Switch Option	OPTIONS Any of the following options may be added:
	-00 -010 -015 -125	N.C. Normally Closed SPDT Single Pole Double Throw	TFE Teflon® Encapsulated Piston O2 Oxygen Cleaned KZ Kalrez® Seals EPR EPR Seals S Special Custom

* Consult Factory

Note:
All dimensions and specifications are subject to change for quality improvement. Not responsible for typing errors.

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