

Model EC-A	Electric Contacting Register	Technical Brief
-------------------	-------------------------------------	----------------------------

GENERAL

Badger Meter's Electric Contacting Register, Model EC-A, is used on Disc and Turbo meters to provide an electric pulse output for a given quantity of liquid metered. In a typical application, the pulses would be transmitted to a chemical feed pump for boiler makeup water or for cooling towers.

The top portion of the EC-A unit consists of a register with a nonresettable totalizer. This register is mounted on top of the contactor section which consists of a gear train assembly, cam-operated switch and appropriate change gears.

The contact rates of the EC-A accessory can be adjusted in the field with the use of change gears and/or different gear train assemblies.

The register can be indicating one unit of measure while the contact rate is supplied in a different unit of measure. For example, gallons and cubic feet.



EC-A on 3" Turbo Meter

OPERATION

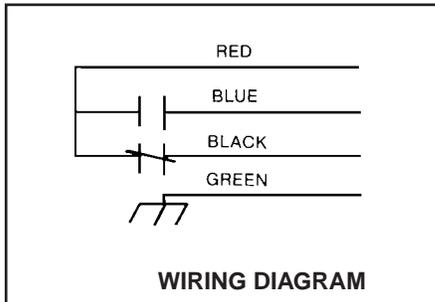
Water or other liquid flowing through the meter will cause the cam in the contactor section to rotate. The cam operates a single-pole, double-throw (SPDT) switch. When connected to a suitable power supply, the EC-A register will provide a pulse output corresponding to a predetermined quantity of liquid. The pulse rates range is from 10 gallons to 10,000 gallons per contact, depending on the meter size. If desired, the pulses can be used to actuate a relay which, in turn, would operate other equipment.

FEATURES

- **Unit can be calibrated in field.**
- **Non-resettable totalizer.**
- **Scaled pulse output.**

SWITCH

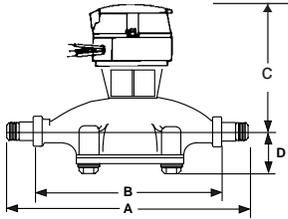
Single-pole, double-throw . . . N.O. or N.C. connections . . .
 Ratings of 10 amps and 1/4 h.p., 125 or 250 volts AC, 1/2 amp, 125 volts DC, 1/4 amp, 250 volts DC.



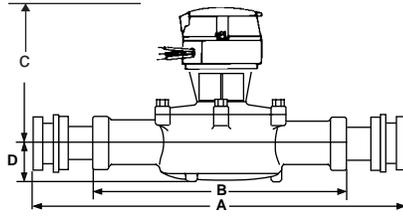
EC-A REGISTER MODELS

Meter Size	5/8" M25 RCDL Disc	3/4", 1" M35, M40, M70 RCDL Disc	1 1/2" M120 RCDL Disc	2" & 3" Turbo & 2" M170 RCDL Disc	4" Turbo	6" Turbo
Test Circle* Units of Measure	10 Gallons	10 Gallons	100 Gallons	100 Gallons	1000 Gallons	1000 Gallons
	1 Cubic Ft.	1 Cubic Ft.	10 Cubic Ft.	10 Cubic Ft.	100 Cubic Ft.	100 Cubic Ft.
	100 Pounds	100 Pounds	1000 Pounds	1000 Pounds	10,000 Pounds	10,000 Pounds
	10 Liters	100 Liters	100 Liters	1 M ³	1 M ³	10 M ³
Range of Contacts	10 Gallons/Contact to 500 Gallons/Contact		50 Gallons/Contact to 5000 Gallons/Contact		100 Gallons/Contact to 10,000 Gallons/Contact	
<i>NOTE: Units per contact are expressed in gallons. Other units of equivalent volumes are available.</i>						

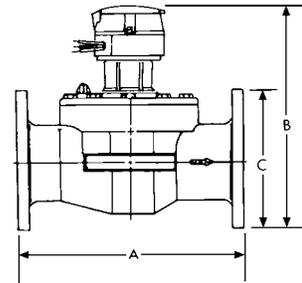
*Meter Test Circle equals one complete revolution of the sweep pointer.



RCDL Disc Meter Size	M25	M35 & 70	M40
Dimen. (Inches)			
A	12 1/4	14	16
B	7 1/2	9	10 3/4
C	6.98	7.58	8.18
D	1.7	1.7	2.3



RCDL Disc Meter Size	M120	M170
Dimen. (Inches)		
A	18.37	22.87
B	12.62	15 1/4
C	8.58	9.08
D	2.4	2.9



Turbo Meter Size	2	3	4	6
Dimen. (Inches)				
A	10	12	14	18
B	11 1/16	11 13/16	14 1/4	16 3/4
C	6	7 1/2	9	11
Appr. Ship. Wt. (Lbs.)	30	40	85	125



Please see our website at
www.badgermeter.com
 for specific contacts.



BadgerMeter, Inc.
 P.O. Box 245036, Milwaukee, WI 53224-9536
 Telephone: (414) 355-0400 / (800) 456-5023
 Fax: (414) 355-7499 / (866) 613-9305
www.badgermeter.com

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding bid obligation exists.