Electronic rate indicator

Model CTR29

8 digit LCD 0.46" (11.7mm) high digits
Requires 9-28 VDC power source

Totalizer

8 digit total:	-99,999,999 to 99,999,999
Max count rate	20kHz

Rate indicator

6 digit rate display	0 to 999,999
Max frequency	20kHz
Min frequency	0.01Hz

DIP switch settings for count input configuration
Non-volatile EEPROM memory
Wire clamp screw terminal connections 30-14 AWG

Environmental rating	NEMA 4/IP65 - face only
Operating temperature	-37 to 75°C
Vibration protection	IEC 68-2-6 5-500Hz 1.5 hrs, 5g's
Shock protection	IEC 68-2-27 30 g's, 11ms
UL listed	UL508, UL50
Weight	3.2 oz (100g)
1/32 DIN cut-out	(2.68+0.025/-0x1.30+0.024/-0) in (68+0.8/-0x33+6/-0) mm

Features

Red LCD display
Independent count/rate factors
Selectable decimal position
0.01Hz min input

Benefits

Easy to read
Flexible units of registration
Scale inputs as needed
Compatible with low resolution pulse

Description

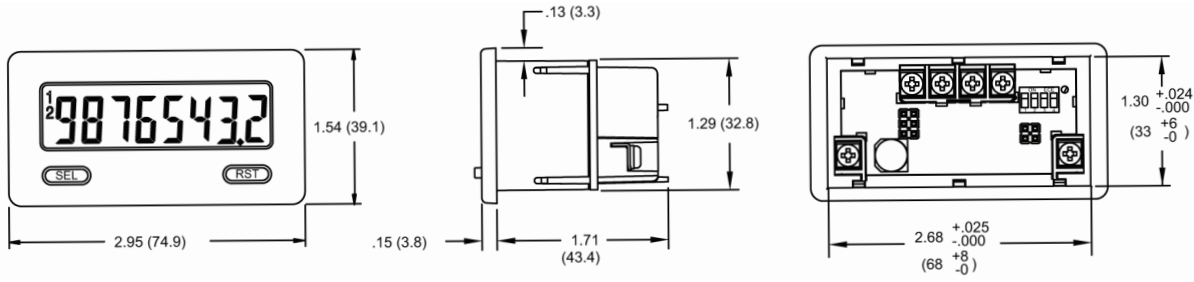The model CTR29 is an economical up-counting totalizer and ratemeter.

It includes large, easy to read 0.46" tall LCD characters. Separately programmable count/rate scale factors and decimal points allow for display of rate and count in various engineering units. The CTR 29 will show either flow rate or total by pressing the 'SEL' mode select button on the front face of the unit. Other features include programmable reset enable/disable, remote reset, and a range of count input type configurations.

The low speed input is suited to contact closures such as reed switches or Elster AMCO Water's oil meters. The high speed input may be used with solid state, current sourcing pulsers such as Elster's evoQ4 with pulse output or oil meters with inductive pulse options.
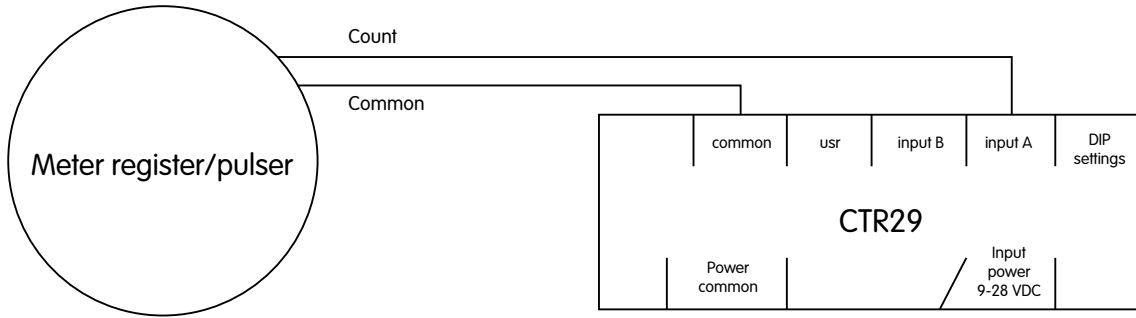
Wiring diagram examples are shown on the reverse page. Full size wiring diagrams detailing the connection of the CTR29 to our industrial metering products are available from Elster AMCO Water.

One of the unique features of the CTR29 is the frequency capability of the low speed input. Similar ratemeter/totalizers have low speed input frequencies of 0.1 Hz minimum (they time out at 10 seconds). The CTR29 can wait up to 100 seconds (0.01 Hz) for a pulse.

Dimensions in inches (mm).
Note: Recommended minimum clearance (behind the panel) for mounting clip installation is 2.15" (54.6) H x 3.00" (76.2) W.

DIP switch settings

Meter	Count	Common
V100	red or yellow	blue or black
H4000	red or yellow	black
M190	either	either
H4400 reed	either	either
Oil reed	either	either
evoQ$_4$	white or red	green

Meter	1	2	3	4
V100	off	off	on	on
H4000 (PR7)	off	off	on	on
M190	off	off	on	on
H4400 reed	off	off	on	on
Oil reed	off	off	on	on
evoQ$_4$	off	off	off	off

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