



Specification Sheet



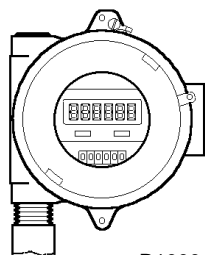
R1000

Description:
Electronic Register

Document #:
24528-17

Rev:
1.0

3255 West Stetson Avenue
Hemet, CA 92545-7799



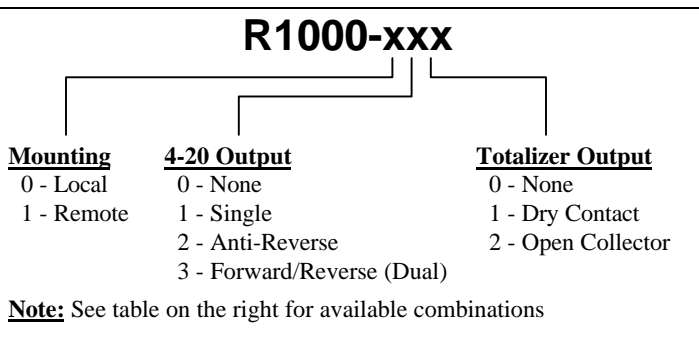
R1000-000

Features:

- ◆ Same as R0900, adds Resettable LCD Totalizer
- ◆ Rugged aluminum housing
- ◆ Programmable Rate and Resettable Totalizer LCD indicator
- ◆ Non-resettable programmable electromechanical totalizer
- ◆ Compatible with all Mc propeller meters up to 24"
- ◆ Local or remote mounting options
- ◆ Industry standard 2-wire 4-20 mA output option
- ◆ Additional pulse and dry contact totalizer output options

➤ **For Meter Sizes of less than 24 inches:**

Available Part Numbers:

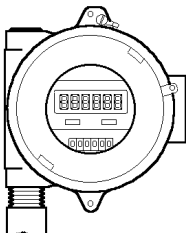


Model Number	Mounting Option	4-20 mA Output	Totalizer Output*	Meter Sizes
R1000-000	Local			All
R1000-010	Local	Single		Up to 24"
R1000-011	Local	Single	DC	Up to 24"
R1000-012	Local	Single	OC	Up to 24"
R1000-020	Local	Anti-Rev		Up to 24"
R1000-021	Local	Anti-Rev	DC	Up to 24"
R1000-022	Local	Anti-Rev	OC	Up to 24"
R1000-100	Remote			All
R1000-110	Remote	Single		Up to 24"
R1000-111	Remote	Single	DC	Up to 24"
R1000-112	Remote	Single	OC	Up to 24"

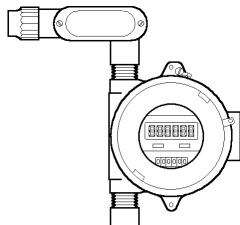
* DC = Dry Contact, OC = Open Collector

Enclosure Configurations:

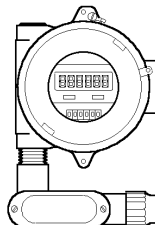
Meter Mounted
R1000-000



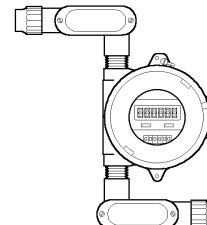
Meter Mounted
4-20mA output option



Remote Mounted
R1000-100



Remote Mounted
4-20mA output option



R1000 Specifications:

General:	
Operating Temperature:	+25 to +130 degrees F
Enclosure Rating:	NEMA 3, 4, 7 B C D, 9 E F G, CENELEC – Eex d II B IP66
LCD Rate/Totalizer Indicator Module:	
Number of Digits:	5/4 Rate, 8 Totalizer
Programmable:	Yes
Battery:	5+ year lithium battery
Resettable Totalizer:	Yes
Accuracy:	±0.2% for Rate
Type:	1/Tau
Update Time:	0.7 seconds
Electromechanical Totalizer	
Number of Digits:	6
Programmable:	Yes (DIP Switches)
Battery:	3+ year lithium battery pack
Resettable:	No
Accuracy:	Absolute when operated within specifications

Electrical Characteristics (Options):

4-20 mA Output:

Supply Voltage:	16 - 40 VDC
Temperature Coefficient:	±1.0%
Linearity:	0.1%
Accuracy:	0.5% over the entire range
Maximum Resistive Load:	Supply Voltage Dependent*
Reverse Voltage Protection:	-300V Maximum

Dry Contact Output**:

Type:	Relay Contact, Norm. Open
Rated Load (AC):	0.5 A at 125 VAC
Rated Load (DC):	1 A at 30 VDC
Max. Operating Current:	1 A
Max. Switching Power:	30 W, 62.5 VA
Contact Closure Duration:	20 milliseconds
Max. Clicks per Minute:	10

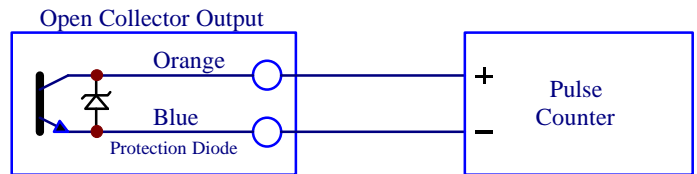
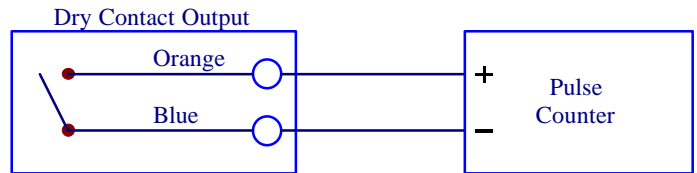
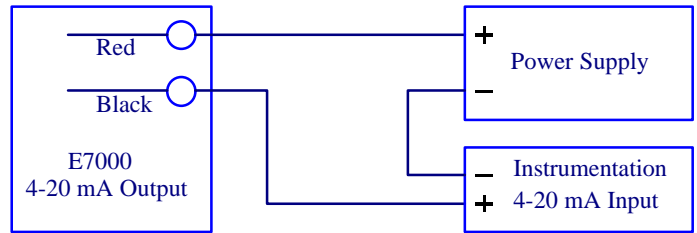
Open Collector Output**:

Type:	NPN Darlington, Isolated
Isolation Voltage:	5000 VAC
Collector to Emitter Voltage:	40 VDC Maximum
Collector Current:	200 mA Maximum
Pulse Output Duration:	10 milliseconds
Max. Pulses per Minute:	10

* - Use formula (Supply Voltage - 16) ÷ 0.02 = Maximum Load(Ω)

** - Totalizer output operates only when power is applied to the 4-20 mA loop.

Typical Wiring Diagrams:



Sensor Wiring (Remote Mounted Only):

Register Terminal	Connect to	Meter Terminal
Yellow	>>	Red (pair 1)
Violet	>>	Black (pair 1)
Orange*	>>	Red (pair 2)
Blue*	>>	Black (pair 2)

*NOTE: Pair 2 is not present on R1000-x1x models

