

## Rate Meter, Totalizer, and Batcher



measuring  
•  
monitoring  
•  
analyzing

MRT



- Display Rate or Total
- Batching Version Available
- 2 Presets for Rate or Total
- Fully Scalable
- Analog or Serial Communications
- NEMA 4X Front Panel
- Pulse Input to 10 kHz



Order from: **C A Briggs Company**  
622 Mary Street; Suite 101; Warminster, PA 18974  
Phone: 267-673-8117 - Fax: 267-673-8118  
[Sales@cabriggs.com](mailto:Sales@cabriggs.com) - [www.cabriggs.com](http://www.cabriggs.com)



**Description**

KOBOLD's MRT series of controllers offer a full range of frequency input control options. Through the use of full scalability and two internal set-point relays, a wide range of totalizing and rate metering/control applications may be accomplished. A specialized batching version is available for use in automated fill or other metering tasks. The batching unit offers one available batch value, which is front panel programmable, with one "pre-warn" value. Start/Stop functions are accessed manually from either the front panel, or electronically via the rear terminal strip. Rate metering capability is standard on all batchers. All MRT units feature a six digit LED display for indication of count (total) and/or five digit rate. Two count input channels (A and B) are featured on the totalizing units. Channel A serves double duty as the rate input. The totalizing display can be programmed to show sum (A+B) or net (A-B) values. Input/Output options include standard as well as direction indicating inputs, a quadrature input feature, RS-232, RS-422, and (0)4-20 mA communication protocols.



**Specifications**

**Display**

**Displayed Values:** Rate, Total, Batch  
**Display Type:** 0.55" Red LED  
 5 Digit Rate  
 6 Digit Total  
 6 Digit Batch

**Power**

**Input:** 110 VAC, 220 VAC  
 12 VDC  
 250 mA Maximum  
 or 6.5 VA Maximum

**Excitation:** 12 VDC @ 50 mA Unregulated  
 (With AC Input Power Only)

**Inputs:**

1 Rate/Count Input  
 1 Count Only Input  
 1 Reset Input

**Level:**

Low: 0-1 VDC  
 High: 4-30 VDC

**Frequency Range:**

0-10 kHz

**Impedance:**

10 kohm

**Outputs:**

2 N/O Relays, 10 A  
 @ 240 VAC / 28 VDC  
 and (0)4-20 mA or  
 RS-232 Port or  
 RS-422 Port

**Environmental**

**Operating Temp:** 32...130 °F

**Storage Temperature:** -40...200 °F

**Housing:** NEMA 4X Front Panel  
 NEMA 1 Case

**Order Details (Example: MRT-1133)**

Model	Function	Operating Voltage	Count Input	Output
MRT-	..1.. = Rate and Total	..1.. = 220 VAC	..3.. = Standard High Impedance, 4-30 VDC, 9.99 kHz Max.	..0 = None
	..4.. = Batching	..5.. = 110 VAC	..4.. = Mag. Input 30 mV Min.	..1 = RS-232 Interface ..2 = RS-422 Interface ..3 = (0)4-20 mA