

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



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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 |