

<b>Model ER-6/R (Remote)</b>	<b>Digital Resettable Totalizer</b>	<b>Technical Brief</b>
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## GENERAL

The Badger Meter Model ER-6 register is a remote totalizer designed for use with all of Badger's meter product lines. A rear adapter plate is provided for attachment to a wall or other suitable surface. The ER-6 series register is available with one or two indicators. With two indicators, one can be set up with the reset function operational while the other can be set up as non-resettable.

The ER-6 is only offered in the remote style as it requires a scaled pulse input from the meter. The unit is battery powered.

## DESCRIPTION

An easy-to-read, 8-digit numeric LCD display is used for the totalizing function. The display can be reset to zero from the front panel button or from an external switch wired directly to a rear terminal. The front panel reset button can be inhibited.

Backlighting of the display is available by connecting DC power to the unit. When the battery is low, an indicator will appear on the screen a couple weeks before the end of the battery life to remind the operator that the battery is in need of replacement.

## OPERATION

The ER-6 simply totalizes all pulses received. If a scaled pulse is not available, consider using the Model ER-8 unit which has a scaling feature.



## FEATURES

- All solid-state components for long life
- Battery powered with memory retention
- Low battery indicator
- Corrosion resistant plastic housing built to NEMA 4X specifications
- Backlighting of display available
- Front panel totalizer reset switch can be disabled



## SPECIFICATIONS

### Count Input (Terminal 2):

Type: NPN signal, contact closure

Count Speed: NPN - 280Hz maximum,  
contact - 95 Hz maximum.

Logic: Low < 1.0 VDC, High > 2.0 VDC,

Minimum Pulse Width: NPN - 1.78 micro seconds,  
contact - 5ms

Maximum Input: 28VDC

Impedance: 1 M $\Omega$  to battery

### Front Panel Reset Enable (Terminal 5):

Type: NPN Signal, Contact Closure; level sensitive

Maximum Input: 28 VDC

### Remote Reset Input (Terminal 4):

Type: NPN Signal, Contact Closure; edge sensitive

Frequency Response: 30 Hz (50% duty cycle)

Maximum input: 28 VDC

### Operating Temperature:

Indicator: 32° F (0° C) to 140° F (60° C)

### Power Source:

Type: Single 3V Lithium Battery (Battery P/N 62576-001)

Expected Life: 5 years

Low Power Indicator: "Low Bat" flashes on display  
approx. 2 weeks prior to end of battery life

### Display:

Type: Supertwist LCD for use with or without  
backlighting

Number: 8 digits

Height: 12mm (.472")

Backlighting: Green Illumination over whole  
viewable area with a 10 to 28 VDC supply (Terminal 8)

### Physical:

Dimensions: 36mm x 72mm, 38mm deep

1.417in x 2.835in, 1.496 in. deep

Mounting: Panel Mount (mounting bracket supplied)

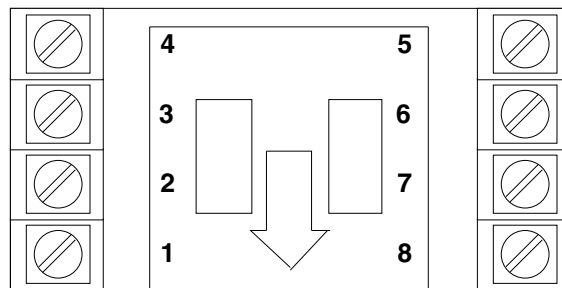
33mm x 68mm (+ 0.3mm) panel cutout

1.299in x 2.677in, (+ 0.012in) panel cutout

Connections: Screw terminals

Weight: Approximately 13 ounces

## WIRING TERMINALS



1. DC Common
2. Count Input
3. Not used
4. Remote Reset - Resets count value when switched to common
5. Front Panel Reset Enable - Enables count value to be reset through depressing the front panel reset key.
6. Not Used
7. Not Used
8. DC Supply Input - 10 to 28 VDC for backlighting.



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for specific contacts.

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.



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