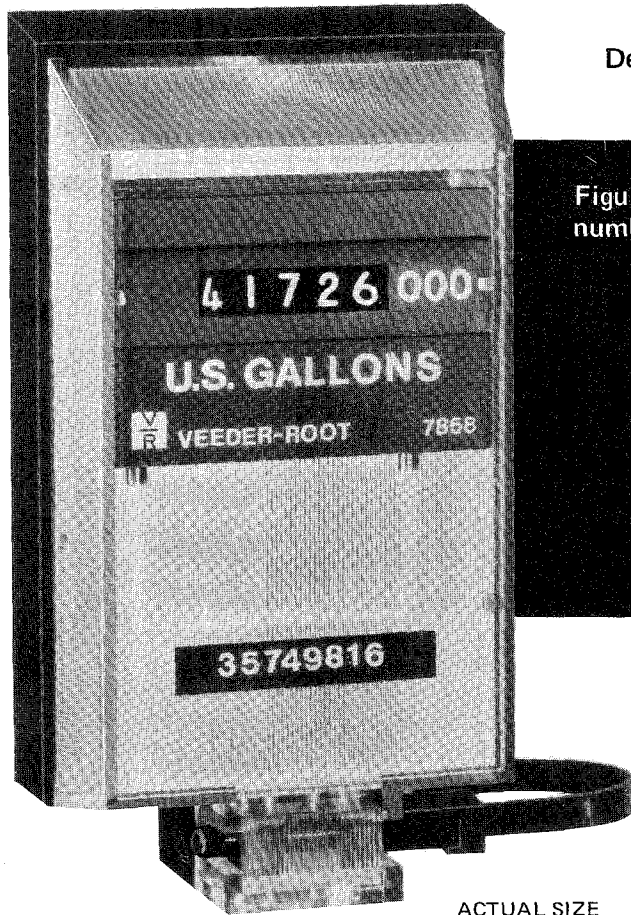




7858 LOW PROFILE REMOTE ELECTROMECHANICAL TOTALIZERS



ACTUAL SIZE

Designed with Special Features for OEM Applications

Figure wheels manually settable to any 5-digit number . . . plus

- Low profile for limited space applications
- Count coil can be continuously energized . . . without damaging counter
- Wide operating temperature range
- Long life, high dependability
- High resistance to mechanical shock
- Maintenance free operation
- Provisions for security seal

DESCRIPTION

Utilizing a high-reliability Veeder-Root counter, the 7858 Electromechanical Totalizer can be set to any 5-digit number. A specially designed spring-loaded mechanism allows wheels to be disengaged and manually repositioned to a new number up to 99,999. This is an important advantage for retaining current totals when the remote counter reading must be synchronized with a meter register. For more information about this unusual feature, see Wheel Setting in the Specifications.

Another advantage of the 7858 is its side reading design. As illustrated above, the counter mounts vertically — a must for custom low-profile, shallow depth installations. And, the white-on-black characters are specially styled for maximum legibility. Case window has built-in magnification.

This small totalizer, with a high efficiency, low inertia drive system, also has the ability to accept low energy or rapidly decaying input pulses of short duration typical of fluid meter pulse generators and capacitor drive circuits. For details on the type of input signals you can use, see Count Pulse Timing below.

APPLICATIONS

Ideal for remote meter registering, test equipment and similar installations requiring low profile side-reading totalizers in

adverse weather and environments. Low power DC models are excellent for battery powered operations. Counter reading can be manually changed any time the coil is not energized.

STANDARD SPECIFICATIONS

Count Speed: 600 cpm maximum

Count Pulse Timing: The ideal pulse for optimum performance of the Series 7858 counter is a square wave with 50 ms minimum on-time and off-time. However, high efficiency magnetics and a low inertia drive system typically permit operation of the 7858 from a less-than-optimum pulse, such as provided by a water meter generator or capacitor drive circuit. The 7858 can normally be tailored to perform well with low-energy sine wave and rapid-decay pulse shapes. A complete description of pulse to be used should be furnished to Veeder-Root engineers for an evaluation of compatibility with the 7858 counter.

Rated Life: 5 million counts under normal operating conditions at 77°F (25°C)

Operating Temperature Range: -40° to +180°F (-40° to +82°C)

Voltage: 5v-dc, typical

Power: 1 watt, typical

Number of Figures: 5

Size of Figures: 0.187" high, 0.099" wide, and 0.020 line width, (4.75, 2.51 and 0.508mm)

Color of Figures: White on black

Wheel Setting: The 7858 is intended primarily for applications where it is necessary to synchronize the remote counter reading with the reading of the mechanical meter's register. Wheel setting is easily accomplished. The 7858 counter's special spring-loaded mechanism allows the wheels to be manually disengaged and rotated, yet

imposes no axial load on the wheel stack during normal counting. The units (right) wheel may be freely rotated to any number with one hand, while the other hand holds the 4 higher order wheels to the left. The tens wheel can then be set in the same manner, while the 3 higher order wheels are held to the left. The process is repeated until all wheels are set to the desired reading

Mounting: Mounting screw holes provided under cover

Connection: Internal # 6 screw terminals

Material: Case: clear polycarbonate. Base: black acetal resin. Wheels, pinion, verge, wheel shaft: acetal resin. Pinion shaft: stainless steel. Counter frame: plated steel

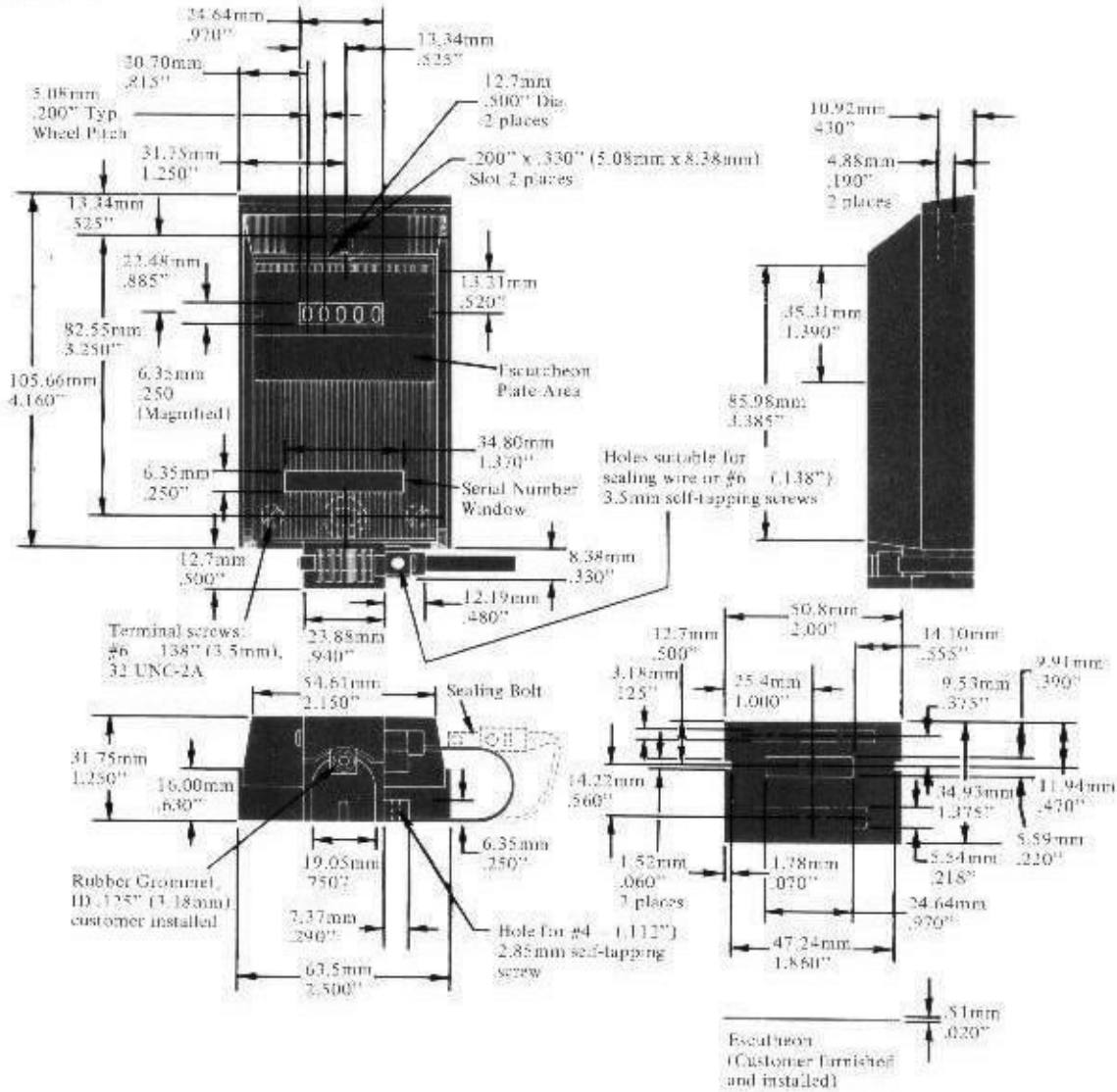
Net Weight: 6 oz (170gm)

OPTIONAL FEATURES

The following options are possible from a design viewpoint. They will normally be available for larger quantity OEM applications. These optional features may also affect product performance as described under standard specifications. Contact your local Veeder-Root Digital Systems Division, District Engineer or Regional Office for additional information or availability status.

Special voltages, mounting, enclosure, terminal connections, and wheel colors. Case colors, customer logo.

DIMENSIONS



Information for guidance only. For current specifications and dimensions, or possible modifications, let our engineers assist you.

The Total Capability Company

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Number One in counting

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