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TECHNICAL DOCUMENTATION

VR-10

VR-10 MECHANICAL-ANALOG GASOLINE PUMP COMPUTER

International product data sheet 251918

ORIGINAL TECHNICAL PAGES

2 scanned pages preserved in original order

**V
R** **VEEDER-ROOT** **PETROLEUM PRODUCTS**

VR-10 MECHANICAL-ANALOG GASOLINE PUMP COMPUTER



EXTENDED PRICE POSTING CAPABILITY UP TO \$10.00 A GALLON

- Greater Total Sale Capability Up to \$1,000.00.
- Sales Rates Up to \$200/Minute.
- Maintains Tenth-of-a-Cent Price Posting Up To \$6.00 per Gallon.
- Unique Worm Gear Drive Prevents Wheel Overthrow.
- Exclusive High Resolution Clutch and Right-Hand Money Wheel Graphics to Improve Accuracy and Readability.

DESCRIPTION

The VR-10 Mechanical Gasoline Pump Computer provides transaction capability at prices up to \$10.00-per-gallon and total sale capacity up to \$1,000.00. An exclusive right-hand money wheel with an injection molded acetal resin clutch gear and gold graphics provides \$1.00 per revolution. The new graphics are large, easy-to-read figures in the configuration: 00, 10, 20, 30, 40, 50, 60, 70, 80, 90 with graduation marks at 0, 2, 4, 5, 6, and 8-cents. These graphics are permanently surface printed onto the wheel, providing accurate and repeatable positioning. An adjustable pointer permits convenient conversion of the display from 2-cent to 5-cent intervals.

The clutch used in both the right-hand money and quantity wheels has high resolution (300 serrations) and a knife edge drive pawl that extends to the outer surface of the clutch serrations. The result is a more precise and repeatable positioning of the wheels at the zero point during reset. Gear reduction to the right-hand money wheel is accomplished with a unique worm gear drive resulting in improved wheel stability and minimizes the effect of money wheel speed on the overall gear system. A significant reduction in the speed of the right-hand money wheel has

been accomplished, offering even greater operational life characteristics.

The \$1.00 right-hand money wheel with 2 or 5 cent graduation marks requires compatible pulser and self-service equipment.

The VR-10 accepts Series 7874 Pulser/Totalizer and barrier circuit retrofits kits. The VR-10 is compatible with all V-R and competitive electric resets. When equipped with pulser and electric reset, these computers provide the total capability needed to interface with equipment for remote authorizing in self-service, data transmitting, inventory control and information collection systems.

APPLICATIONS

The VR-10 provides the durability and reliability expected from mechanical computers at posted prices up to \$10.00 per gallon. Exceptionally versatile, it can be equipped with various options such as pulse generators and electric reset for self-serve operations. A factory installed "Quick Change" gearbox can be ordered for fast conversion to the metric system.

SPECIFICATIONS

Speed: 200 rpm maximum of right-hand money wheel (20 gallons per minute at \$10.00 per gallon). \$200 per minute maximum at any price per gallon.

Number of Computer Wheels: Two banks of 4 wheels each for money and gallons, front and back.

Character Configuration: 00, 10, 20, 30, 40, 50, 60, 70, 80, 90 with graduations every 2-cents and 5-cents.

Maximum Display Capability: Money: \$999.98. Volume: 999.9 units.

Size of Figures: All 20.6 mm (0.812") high.

Totalizers: Gallons: 7 digits. Money: 7 digits. Right-hand wheel of the money totalizer has the single transfer design with 10-cent increments.

Price Setting Figures: 0.000 to 5.999 dollars per gallon in 1/10-cent increments and 0.00 to 9.99 in 1-cent increments.

Reset: Double handle or rotary reset mechanism. Readily accepts existing electric resets.

Operating Temperature Range: -40° to +71° C (-40° to +160° F).

OPTIONS

Series 7874 Pulser/Totalizer and Circuit Barrier: Available in retrofit kits. Replaces money totalizer, utilizing the same space as existing totalizer. Permits installation of a pulse transmitter in limited space enclosures.

V-R Electric Reset: Provides power to return computer display to zero reading as well as activating self-service interface switches providing pump control. May be interfaced with remote control of self-service operations.

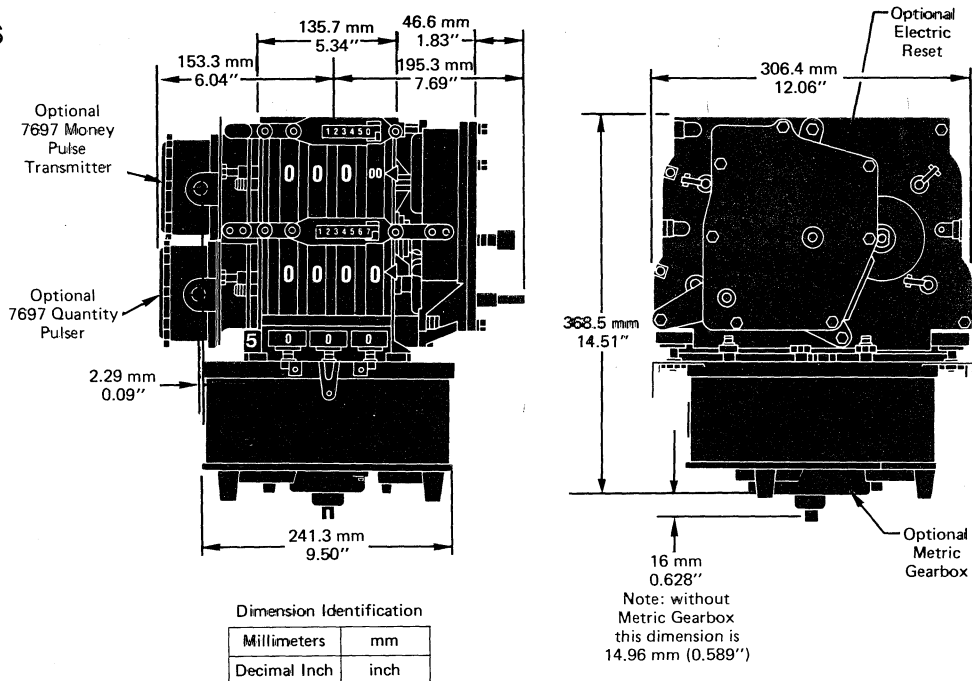
"Quick-Change" Metric Gear Box: Converts computer from gallons to liters by simply pushing in a lever.

Four-Transfer Money Wheel: Also available is a 4-transfer right-hand money wheel similar to the one found on the VR-2002E. When so equipped, the VR-10 has price posting capability to \$3.999 per gallon and is designated VR-10/4.

Series 7697 Pulse Transmitter: Explosion-proof pulser for data transmission to self-serve systems or remote displays. Both quantity and money pulsers available.

NOTE: Pointers for right money wheel must be adjusted to the appropriate money value division for the unit price utilized as specified by the state or local regulating authority.

DIMENSIONS



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