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Floyd S. Salsler, Jr. & Associates

## Remote Displays for Hot or Cold Water Meters

- For use with pulse or encoded registers
- Single or Dual Meter Displays
- AMR Output
- Tamper Detection
- Resolves Customer Complaints on the

**Description:** The RCM-100 is a remote primary display with ability to communicate with all types of pulse or encoder equipped water meter registers. The customers and meter readers can access the meter reading without having access to the water meter itself. It is available in single and dual register models with color coding for hot (red) or cold (blue) water usage.

The meter reading is displayed on a 6-digit LCD powered by a 3.6 Volt Lithium battery delivering a service life calculated to more than 13 years. The heart of the RCM-100 is a micro-processor to interrogate an encoder or store counts from any pulse type-metering device. The LCD display continually indicates the current meter reading.

The RCM-100 has a communication connector that can only be accessed when the unit cover is removed. This connector allows the dedicated programming device to configure and setup the unit.

**Programming:** The RCM-100 is programmed through a very simple pocket-sized device known as the RCM Programmer. It is not possible to change the configuration or readings without this device. During initial setup, the initial reading and any special K-Factors are entered into the device using the RCM Programmer.

**AMR Connectivity:** The RCM-100 has an output for connecting to an Automatic Meter Reading device such as RF Transmitters for Fixed Network or Drive-By applications. This can either be a 'Pulse Output' or an 'Encoder Interface'. This is configured by means of the programming unit.

All cable connections to the unit are by means of screw terminals accessible only when the cover is removed. Since removing the cover activates the tamper code, only an authorized technician with the proper equipment can remove the cover.

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## RCM-100 Primary Meter Display



**Tamper Detection:** The unit is equipped with an advanced tamper detection program to indicate any unauthorized tampering with the wire, the meter register, and the security sealed cover. In either instance, a tamper indicator is displayed on the LCD display depicted by a large X at the extreme left of the LCD display. Only the owner can reset and erase the tamper code using the RCM Programmer, as no other device can access the program. Each unit can be provided with a State Approved Adhesive Security Seal if required for dual tamper protection

All cable connections to the unit are by means of screw terminals accessible only when the cover is removed. Since removing the cover activates the tamper code, only an authorized technician with the proper equipment can remove the cover.

**Required State Markings:** The serial number, device identification, make, manufacturer and model number are contained on a label that is fixed on the inside of the clear cover that cannot be changed or removed once the unit is installed. The PCB is permanently fixed to the inside of the unit under the label and is not removable.

The case offers sealing against water entry. Cable entry will be by means of a small hole on the base of the case. This must be adequately sealed after installation to maintain the water sealing in those installations that require such protection.

### Construction

<b>Enclosure</b>	Water-Resistant Wall Mount
<b>Enclosure Material</b>	Grey Poly-Carbonate
<b>Cover Material</b>	Clear Poly-Carbonate
<b>Circuit Board</b>	Conformal Coated (For Moisture Resistance)
<b>Display</b>	MARS Custom 8-Digit LCD
<b>Connection</b>	Internal Screw Terminal
<b>Dimensions</b>	2 1/2" X 4 1/2" X 1 1/2"
<b>Weight</b>	7.5oz



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