

Specification Sheet

PD-25 - Tesla RF Meter Size: 5/8 x 3/4 inch

Specifications

| | |
|-------------------------------|-----------------|
| Size | 5/8 x 3/4 in. |
| Typical Operating Range | |
| 100% \pm 1.5% | 1 - 20 gpm |
| Low Flow (95% - 101%) | 1/4 gpm |
| Max Continuous Operating Flow | 10 gpm |
| Max Operating Capacity | 20 gpm |
| Pressure Loss at Max Flow | 7.0 psi |
| Max Operating Temperature | 120°F |
| Max Operating Pressure | 150 psi |
| RF Technology | Spread Spectrum |
| Display/Dial | LCD |

Meets or exceeds latest revision of AWWA C700 Performance Standards

Physical Characteristics

| | |
|----------------------------|--------|
| | inches |
| Meter length | |
| Screw Ends | 7 1/2 |
| Meter Casing Screw Ends | |
| Nominal Thread Size [NPSM] | 1 |
| Couplings (Tailpieces) | |
| Length | 2 1/2 |
| Nominal Thread Size | 3/4 |

Meets or exceeds latest revision of AWWA C700 Dimensional Standards

- Integrated 1-Watt AMR transceiver
- Unlicensed Frequency (902MHz - 928MHz)
- Standard or low lead bronze
- Stainless steel can sealed register
- Polymer housing
- Large numbers for easy reading
- Great low flow
- Built-in strainer
- 5-year new meter accuracy warranty
- 25-year standard warranty for body
- Rated to 120°F



Description

Applications - For use in measurement of potable cold water in residential, commercial and industrial services where flow is in one direction only. Register includes an integrated 1-Watt RF transceiver for drive-by wireless automated meter reading.

Main casing and bottom plate - Main casings are made of a copper alloy that meets the latest AWWA C700 standards. Both Standard Waterworks bronze (UNS C84400) and Low Lead bronze (UNS C89833 and C89836), to meet NSF 61-G and the new Federal Low Lead Law, are available. The serial number is permanently marked on the body, along with the size, direction of flow and manufacturer (RG3). Bottom plates are available in suitable engineering plastic, copper alloy or cast iron.

Register housings - Register housings are made of suitable engineering plastic. The tamper resistant retaining pin is made of stainless steel.

Measuring chambers - Measuring chambers are made of suitable engineering plastics to meet AWWA C700 Standards. The piston has approximately the same specific gravity as water. All spindles are stainless steel.

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Installation - The meter must be installed in a clean pipeline, free from any foreign materials. The meter shall be installed with the direction of flow as indicated by the arrow cast in the meter case. The meter may be installed in horizontal, vertical or inclined lines.

Strainers - All meters have a strainer installed in the meter. Strainer screens are rigid, snug fitting, easy to remove and have an effective straining area of at least double that of the main-case inlet.

Registers - Electronic register integrated with RG3's Tesla radio transceiver. Easy to read LCD odometer with 100th of a Gallon resolution and fully encapsulated electronics to resist moisture. The register also consists of an external antenna to enhance radio transmission.

Register can also Retrofit Badger, Neptune, and Sensus meters while maintaining the current meter reading and meter serial number from the register being replaced.

Register includes the following:

- Wireless Transmitter for AMR
- Company name
- Month and year of manufacture
- Leak Detector
- Large, easy to read numbers
- Size of meter
- Type of reading (example U.S. Gallons, Cubic Feet, Liters or m3)

Connectors - Tailpieces/meter couplings for installation of meters on various types and sizes of pipe are available as an option.

Magnetic Drive - The use of high strength magnets provides positive, reliable and dependable register coupling.

Tesla AMR System - RG3's Tesla AMR System is a true two-way communication drive-by AMR system. Driven by high power spread spectrum RF technology, it provides reliable radio transmission from the toughest meter environments.

The Tesla AMR System is full-featured including data profiling, leak detection and backflow indication. The leak detection and backflow flags can be seen on the computer inside the vehicle and can also appear on reports after meter reading has been completed.

- Integrated 1-Watt Internal RF Transceiver
- Data Logging
- Leak Detection Notification
- Backflow Detection Notification
- Easy to Use Data Collection Computer

Materials

| | |
|------------------|-----------------------------|
| Main Case | Standard or Low Lead Bronze |
| Measuring Unit | Thermoplastic |
| O-Ring | Nitrile Rubber |
| Magnet | Ceramic Ferrite |
| Strainer | Thermoplastic |
| Register Lens | Polymer |
| Register Housing | Polymer |
| Gearing Wheels | Thermoplastic |



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Due to continuous research and product enhancements, RG3 Meter Company reserves the right to change product or system specifications without notice, except to the extent an outstanding contractual obligation exists.

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