

# 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%	1/4 - 25 gpm
Low Flow (Min. 95%)	1/8 gpm
Max Continuous Operating Flow	20 gpm
Max Operating Capacity	25 gpm
Pressure Loss at Max	
Operating Capacity	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 Spuds	
Nominal Thread Size	1
Couplings (Tailpieces)	
Length	2 1/2
Nominal Thread Size	3/4

Meets or exceeds latest revision of AWWA C700 Dimensional Standards

- Integrated AMR transceiver
- All bronze construction
- Stainless steel can sealed register
- Large numbers for easy reading
- Great low flow
- Built-in strainer
- 5 year new meter accuracy warranty
- 25 year standard warranty for body
- 20 year register warranty
- 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 a RF transceiver for drive-by wireless automated meter reading.

**ASTM E83600 Main casing and bottom plate** - Main casings are made of a copper alloy containing not less than 85% copper such as UNS C84400 or UNS C93200, or a similar copper alloy as listed in ASTM B62. No lead bodies available. The serial number is engraved on the body. The main case also shows the name of the manufacturer (IMC), the size and direction of flow. Bottom plates can be made of a suitable engineering plastic or cast iron as well.

**Register housings** - Register housings are made of polyoxymethylene. The tamper resistant retaining pin is made of stainless steel.

**Measuring chambers** - Measuring chambers are made of plastic, such as polyethylene ether (PPE) per ASTM D4349, nylon (N) per ANSI/ASTM D4066, polyethylene per ASTM D1248, or polystyrene per ASTM D4549. 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 or inclined lines up to 45°, with the register facing upward.

**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 Infinity'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 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, 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** - Infinity'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 tablet computer inside the vehicle and can also appear on reports after meter reading has been completed.

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

### Materials

Main Case	Bronze
Measuring Unit	Thermoplastic
O-Ring	Nitrile Rubber
Magnet	Ceramic Ferrite
Strainer	Thermoplastic
Register Lens	Polycarbonate
Register Housing	Polyoxymethylene
Gearing Wheels	Polycarbonate



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