



Badger Meter

How to Read an RTR®

with Recordall® Meters

HOW TO READ AN RTR CONNECTED TO A RECORDALL METER

The Recordall Transmitter Register (RTR®) is designed for use with the Badger Meter Recordall® Disc Series and Turbo Series meters. The RTR has a straight-reading odometer-type totalization display, 360° test circle with center sweep hand and flow finder to detect leaks. Flow finders are color coded to define the unit of measure.

Red = Gallons, **Blue** = Cubic Feet, **Black** = Cubic Meters

The test circle is divided into tenths and hundredths, and it takes a complete revolution of the sweep hand or pointer to indicate the first rolling digit at the right of the number wheel stack. The test circle is only used for testing purposes and varies depending on meter size.

On all registers there are six live number wheels. The rest of the numbers are painted on the dial.

Utility and Billing Standards for Meter Reading

Unit of Measure Reading to the Nearest

- **Gallons** – reading to the nearest 1000 gallons
- **Cubic Feet** – reading to the nearest 100 ft³
- **Cubic Meters**– reading to the nearest 10 m³

All registers are designed with white and black number wheels for readability. The white number wheels correspond to a “typical” utility standard meter reading.

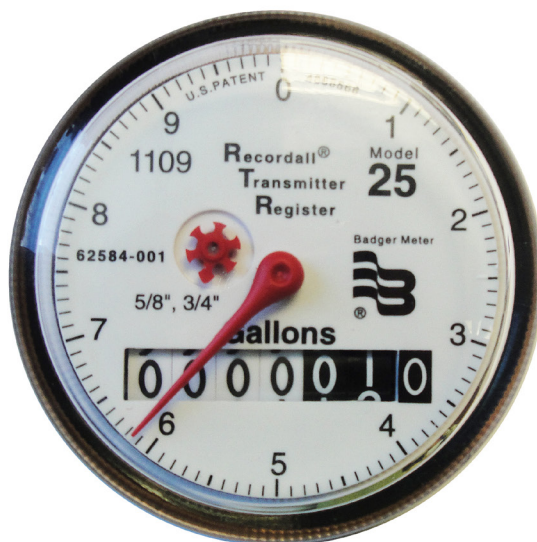
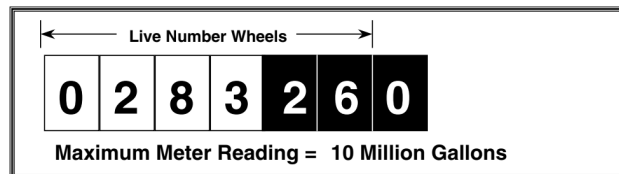


Figure 1: RTR in gallons

GALLONS

10 Gallon Test Circle

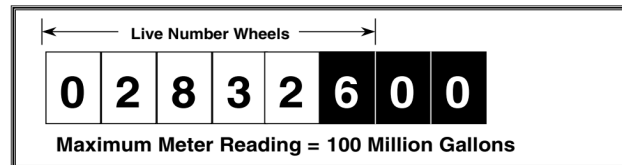
Recordall Disc Meters: M25, M35, M40, M70



Meter reading 1 Gallon = 283260
to the nearest? 10 Gallons = 28326
100 Gallons = 2832
1,000 Gallons = 283 ← Utility Standard

100 Gallon Test Circle

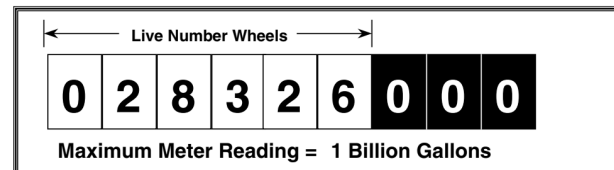
Recordall Disc Meters: M25, M35, M40, M70; Recordall Turbo Meters: 2 in., 3 in., 4 in.



Meter reading 1 Gallon = 2832600
to the nearest? 10 Gallons = 283260
100 Gallons = 28326
1,000 Gallons = 2832 ← Utility Standard

1000 Gallon Test Circle

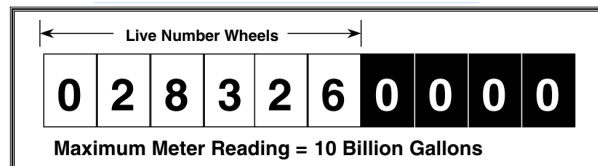
Recordall Turbo Meters: 2 in., 3 in., 4 in., 6 in., 8 in., 10 in.



Meter reading 1 Gallon = 28326000
to the nearest? 10 Gallons = 2832600
100 Gallons = 283260
1,000 Gallons = 28326 ← Utility Standard

10,000 Gallon Test Circle

Recordall Turbo Meters: 12 in., 16 in., 20 in.

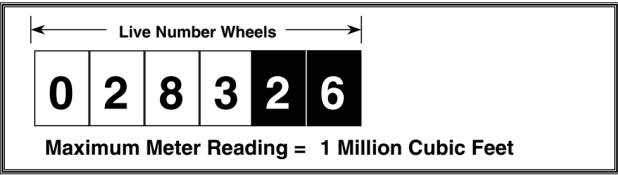


Meter reading 10 Gallons = 28326000
to the nearest? 100 Gallons = 2832600
1,000 Gallons = 283260
10,000 Gallons = 28326 ← Utility Standard

CUBIC FEET

1 Cubic Foot Test Circle

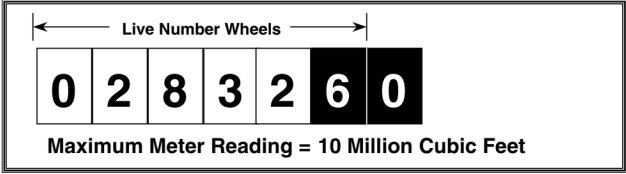
Recordall Disc Meters: M25, M35, M40, M70



Meter reading to the nearest? 1 Cubic Foot = 28326
10 Cubic Feet = 2832
100 Cubic Feet = 283 ← Utility Standard

10 Cubic Foot Test Circle

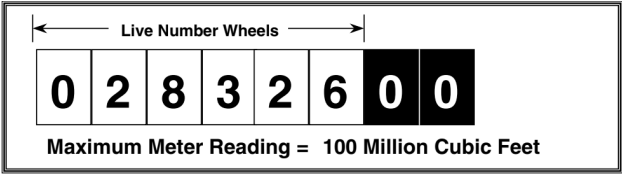
Recordall Disc Meters: M70, M120, M170



Meter reading to the nearest? 1 Cubic Foot = 283260
10 Cubic Feet = 28326
100 Cubic Feet = 2832 ← Utility Standard

100 Cubic Foot Test Circle

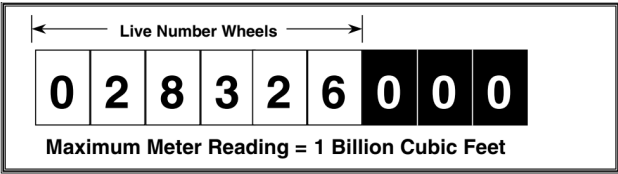
Recordall Turbo Meters: 2 in., 3 in., 4 in., 6 in., 8 in., 10 in.



Meter reading to the nearest? 1 Cubic Foot = 2832600
10 Cubic Feet = 283260
100 Cubic Feet = 28326 ← Utility Standard

1000 Cubic Foot Test Circle

Recordall Turbo Meters: 12 in., 16 in., 20 in.

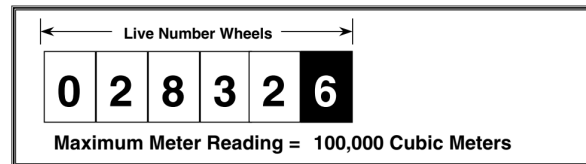


Meter reading to the nearest? 10 Cubic Feet = 2832600
100 Cubic Feet = 283260
1,000 Cubic Feet = 28326 ← Utility Standard

CUBIC METER

0.1 Cubic Meter Test Circle

Recordall Disc Meters: M25, M35, M40, M70

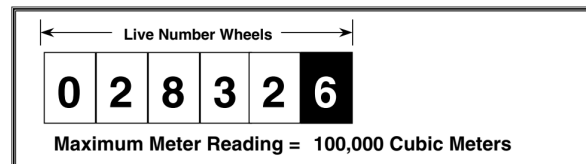


Meter reading 1 Cubic Meters = 2832
to the nearest? 10 Cubic Meters = 283 ← Utility Standard



1 Cubic Meter Test Circle

Recordall Disc Meters: M25, M35, M40, M70

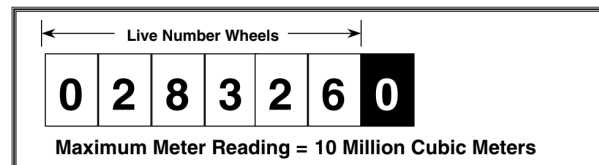


Meter reading 1 Cubic Meters = 2832
to the nearest? 10 Cubic Meters = 283 ← Utility Standard



10 Cubic Meter Test Circle

Recordall Turbo Meters: 6 in., 8 in., 10 in., 12 in., 16 in., 20 in.



Meter reading 1 Cubic Meters = 283260
to the nearest? 10 Cubic Meters = 28326 ← Utility Standard
100 Cubic Meters = 2832



SMART WATER IS BADGER METER

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