

**Badger Meter**

RTR® Test Circle Codes

OVERVIEW

To convert an endpoint field reading into billing units, ReadCenter® software uses a Test Circle Code. The Test Circle Code reflects the number of gallons, cubic feet and cubic meters measured by the meter per each revolution of the sweep hand. The following charts have been provided to help understand correct RTR® Test Circle Code designations. E-Series® Ultrasonic Meter Test Circle Codes are included in the Recordall® Disc Series charts in this document.

For additional information, please contact Badger Meter Technical Support.

RECORDALL DISC SERIES METERS – GALLONS

| Meter Model | Size (in.) | Test Circle Resolution (gal) | Test Circle Code | ORION and GALAXY Reading Resolution (gal) |
|-------------|-------------|------------------------------|------------------|---|
| LP | 5/8 | 10 | 01 | 1 |
| LP | 5/8 x 3/4 | 10 | 01 | 1 |
| M25 | 5/8 | 10 | 01 | 1 |
| M25 | 5/8 x 3/4 | 10 | 01 | 1 |
| M35 | 3/4 | 10 | 01 | 1 |
| M40 | 1 | 10 | 01 | 1 |
| M55 | 1 | 10 | 01 | 1 |
| M70 | 1 | 10 | 01 | 1 |
| E-Series | 5/8...1 | 10 | 01 | 1 |
| M120 | 1-1/2 | 100 | 02 | 10 |
| M170 | 2 | 100 | 02 | 10 |
| E-Series | 1-1/2 and 2 | 100 | 02 | 10 |

RECORDALL TURBO SERIES METERS – GALLONS

| Meter Model | Size (in.) | Test Circle Resolution (gal) | Test Circle Code | ORION and GALAXY Reading Resolution (gal) |
|-------------|------------|------------------------------|------------------|---|
| T160 | 1-1/2 | 1000 | 03 | 100 |
| T200 | 2 | 1000 | 03 | 100 |
| T450 | 3 | 1000 | 03 | 100 |
| T1000 | 4 | 1000 | 03 | 100 |
| T2000 | 6 | 1000 | 03 | 100 |
| T3500 | 8 | 1000 | 03 | 100 |
| T5500 | 10 | 1000 | 03 | 100 |
| T6200 | 12 | 10000 | 04 | 1000 |
| T6600 | 16 | 10000 | 04 | 1000 |
| T10000 | 20 | 10000 | 04 | 1000 |

RECORDALL COMPOUND SERIES METERS (WITHOUT SUMMATORS*) – GALLONS

| Meter Model | Size (in.) | Test Circle Resolution (gal) | Test Circle Code | ORION and GALAXY Reading Resolution (gal) |
|---------------------------|-------------------|-------------------------------------|-------------------------|--|
| High Side T200 (Turbo) * | 2 | 1000 | 03 | 100 |
| Low Side M25 (Disc) | 2 | 10 | 01 | 1 |
| High Side T450 (Turbo) * | 3 | 1000 | 03 | 100 |
| Low Side M25 (Disc) | 3 | 10 | 01 | 1 |
| High Side T1000 (Turbo) * | 4 | 1000 | 03 | 100 |
| Low Side M35 (Disc) | 4 | 10 | 01 | 1 |
| High Side T2000 (Turbo) * | 6 | 1000 | 03 | 100 |
| Low Side M35 (Disc) | 6 | 10 | 01 | 1 |
| High Side T3500 (Turbo) * | 8 | 1000 | 03 | 100 |
| Low Side M120 (Disc) | 8 | 100 | 02 | 10 |

*Recordall Compound Series Meter with a 308 Summator should use the Test Circle Code that corresponds to the high side registration (gallons, cubic feet or cubic meters) to ensure the appropriate reading is passed to the billing software.

RECORDALL DISC SERIES METER – CUBIC FEET

| Meter Model | Size (in.) | Test Circle Resolution (ft³) | Test Circle Code | ORION and GALAXY Reading Resolution (ft³) |
|--------------------|-------------------|--|-------------------------|---|
| LP | 5/8 | 1 | 05 | 0.1 |
| LP | 5/8 x 3/4 | 1 | 05 | 0.1 |
| M25 | 5/8 | 1 | 05 | 0.1 |
| M25 | 5/8 x 3/4 | 1 | 05 | 0.1 |
| M35 | 3/4 | 1 | 05 | 0.1 |
| M40 | 1 | 1 | 05 | 0.1 |
| M55 | 1 | 1 | 05 | 0.1 |
| M70 | 1 | 1 | 05 | 0.1 |
| E-Series | 5/8...1 | 1 | 05 | 0.1 |
| M120 | 1-1/2 | 10 | 06 | 1 |
| M170 | 2 | 10 | 06 | 1 |
| E-Series | 1-1/2 and 2 | 10 | 06 | 1 |

RECORDALL TURBO SERIES METERS – CUBIC FEET

| Meter Model | Size (in.) | Test Circle Resolution (ft³) | Test Circle Code | ORION and GALAXY Reading Resolution (ft³) |
|--------------------|-------------------|--|-------------------------|---|
| T160 | 1-1/2 | 100 | 07 | 10 |
| T200 | 2 | 100 | 07 | 10 |
| T450 | 3 | 100 | 07 | 10 |
| T1000 | 4 | 100 | 07 | 10 |
| T2000 | 6 | 100 | 07 | 10 |
| T3500 | 8 | 100 | 07 | 10 |
| T5500 | 10 | 100 | 07 | 10 |
| T6200 | 12 | 1000 | 08 | 100 |
| T6600 | 16 | 1000 | 08 | 100 |
| T10000 | 20 | 10000 | ** | 1000 |

** For additional information, please contact Badger Meter Technical Support.

RECORDALL COMPOUND SERIES METERS (WITHOUT SUMMATORS*) – CUBIC FEET

| Meter Model | Size (in.) | Test Circle Resolution (ft ³) | Test Circle Code | ORION and GALAXY Reading Resolution (ft ³) |
|---------------------------|------------|---|------------------|--|
| High side T200 (Turbo) * | 2 | 100 | 07 | 10 |
| Low Side M25 (Disc) | 2 | 1 | 05 | 0.1 |
| High Side T450 (Turbo) * | 3 | 100 | 07 | 10 |
| Low Side M25 (Disc) | 3 | 1 | 05 | 0.1 |
| High Side T1000 (Turbo) * | 4 | 100 | 07 | 10 |
| Low Side M35 (Disc) | 4 | 1 | 05 | 0.1 |
| High Side T2000 (Turbo) * | 6 | 100 | 07 | 10 |
| Low Side M35 (Disc) | 6 | 1 | 05 | 0.1 |
| High Side T3500 (Turbo) * | 8 | 100 | 07 | 10 |
| Low Side M120 (Disc) | 8 | 10 | 06 | 1 |

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RECORDALL DISC SERIES METERS – CUBIC METERS

| Meter Model | Size (in.) | Test Circle Resolution (m ³) | Test Circle Code | ORION and GALAXY Reading Resolution (m ³) |
|-------------|-------------|--|------------------|---|
| LP | 5/8 | 0.1 | 10 | 0.01 |
| LP | 5/8 x 3/4 | 0.1 | 10 | 0.01 |
| M25 | 5/8 | 0.1 | 10 | 0.01 |
| M25 | 5/8 x 3/4 | 0.1 | 10 | 0.01 |
| M35 | 3/4 | 0.1 | 10 | 0.01 |
| M40 | 1 | 0.1 | 10 | 0.01 |
| M55 | 1 | 0.1 | 10 | 0.01 |
| M70 | 1 | 0.1 | 10 | 0.01 |
| E-Series | 5/8...1 | 0.1 | 10 | 0.01 |
| M120 | 1-1/2 | 1 | 11 | 0.1 |
| M170 | 2 | 1 | 11 | 0.1 |
| E-Series | 1-1/2 and 2 | 1 | 11 | 0.1 |

RECORDALL TURBO SERIES METERS – CUBIC METERS

| Meter Model | Size (in.) | Test Circle Resolution (m ³) | Test Circle Code | ORION and GALAXY Reading Resolution (m ³) |
|-------------|------------|--|------------------|---|
| T160 | 1-1/2 | 1 | 11 | 0.1 |
| T200 | 2 | 1 | 11 | 0.1 |
| T450 | 3 | 1 | 11 | 0.1 |
| T1000 | 4 | 1 | 11 | 0.1 |
| T2000 | 6 | 10 | 12 | 1 |
| T3500 | 8 | 10 | 12 | 1 |
| T5500 | 10 | 10 | 12 | 1 |
| T6200 | 12 | 10 | 12 | 1 |
| T6600 | 16 | 100 | 13 | 10 |
| T10000 | 20 | 100 | 13 | 10 |

RECORDALL COMPOUND SERIES METERS (WITHOUT SUMMATORS*) – CUBIC METERS

| Meter Model | Size (in.) | Test Circle Resolution (m ³) | Test Circle Code | ORION and GALAXY Reading Resolution (m ³) |
|---------------------------|------------|--|------------------|---|
| High side T200 (Turbo) * | 2 | 1 | 11 | 0.1 |
| Low Side M25 (Disc) | 2 | 0.1 | 10 | 0.01 |
| High Side T450 (Turbo) * | 3 | 1 | 11 | 0.1 |
| Low Side M25 (Disc) | 3 | 0.1 | 10 | 0.01 |
| High Side T1000 (Turbo) * | 4 | 1 | 11 | 0.1 |
| Low Side M35 (Disc) | 4 | 0.1 | 10 | 0.01 |
| High Side T2000 (Turbo) * | 6 | 10 | 12 | 1 |
| Low Side M35 (Disc) | 6 | 0.1 | 10 | 0.01 |
| High Side T3500 (Turbo) * | 8 | 10 | 12 | 1 |
| Low Side M120 (Disc) | 8 | 1 | 11 | 0.1 |

*Recordall Compound Series Meter with a 308 Summator should use the Test Circle Code that corresponds to the high side registration (gallons, cubic feet or cubic meters) to ensure the appropriate reading is passed to the billing software.

Making Water Visible®

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