

## ZENNER Multi-Jet Type Magnetic Drive Cold Water Meters NITRO I

Model PMN

Sizes: 5/8", 3/4", 1", 1-1/2", 2"

**INTRODUCTION:** ZENNER PMN Water Meters utilize a magnetically driven multi-jet design. They are designed to measure cold potable water where flow is in one direction only in residential, commercial, and industrial settings.

**OPERATION:** Water flows through the meter's strainer and into the measuring chamber where it drives the impeller. A drive magnet transmits the motion of the impeller to a driven magnet located within the hermetically sealed register. Powerful rare earth magnets eliminate slipping and uncoupling to increase overall accuracy. The magnet is connected to a gear train which translates the impeller's rotation into volume totalization displayed on the register dial face.

**CONSTRUCTION:** ZENNER PMN Water Meters consist of three basic components: main case, measuring chamber and sealed register. The main cases are constructed using either C89833 or C89850 Brass Alloys. Measuring Chambers are constructed of a durable synthetic polymer. Registers are available as either direct read or electronic output.

**MAINTENANCE:** ZENNER PMN Water Meters are engineered and manufactured to provide long-term service and operate virtually maintenance free. The precise simple design allows for interchangeable parts, reducing parts inventory.

**REGISTRATION:** ZENNER PMN Water Meters utilize a magnetically driven, hermetically sealed design. The sealed design eliminates dirt, moisture infiltration, and prevents fogging. The register includes a large odometer-type totalization display, center sweep hand (360°) test circle, low flow leak detector. All ZENNER Meters have electronic output capabilities for easy conversion to Automated Meter Reading. 5/8" through 1" capacities are: 10,000,000 Gallons, 1,000,000 Cubic Feet, 100,000 Cubic Meters, 6 odometer wheels. 1 1/2" and 2" registration capacities are: 100,000,000 Gallons, 10,000,000 Cubic Feet, 1,000,000 Cubic Meters, 6 odometer wheels.

**CONFORMANCE:** ZENNER PMN Water Meters are tested and comply with AWWA C708, ISO 4064, and G13IT19001-ISO9000 performance standards. These Meters comply with the lead-free provisions of the Safe Drinking Water Act and are certified to NSF/ANSI Standards 61 and 372.

**TAMPERPROOF FEATURES:** Customer removal of the register to obtain free water is prevented through the use of a locking device that requires a special tool, only available to water utilities.

**CONNECTIONS:** These meters have been designed with ease of installation in mind through the use of built-in wrench pads on meter sizes 5/8" through 1". Tailpiece/Unions for installations of meters are available as an option for various pipe types, sizes, and misaligned pipes. The 1-1/2" PMN09 and 2" PMN12 flanged meters come with a built-in 1" test port.



### ZENNER USA

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*All that counts.*

| MODEL                            |        | PMN01     | PMN02     | PMN03      | PMN04     | PMN05   | PMN07  |  |
|----------------------------------|--------|-----------|-----------|------------|-----------|---------|--------|--|
| SIZE                             |        | 5/8 x 1/2 | 5/8 x 3/4 | 3/4" Short | 3/4 x 3/4 | 3/4 x 1 | 1"     |  |
| High Flow Rate                   | USGPM  | 20        | 20        | 30         | 30        | 30      | 50     |  |
| Continuous Flow                  | USGPM  | 10        | 10        | 15         | 15        | 15      | 25     |  |
| Starting Flow                    | USGPM  | 3/64      | 3/64      | 5/64       | 5/64      | 5/64    | 5/64   |  |
| Normal Flow                      | USGPM  | 1 - 20    | 1 - 20    | 2 - 30     | 2 - 30    | 2 - 30  | 3 - 50 |  |
| Low Flow                         | USGPM  | 1/8       | 1/8       | 1/2        | 1/2       | 1/2     | 3/4    |  |
| Extreme High Flow (Intermittent) | USGPM  | 25        | 28        | 32         | 32        | 32      | 60     |  |
| Maximum Working Pressure         | P.S.I. | 150       | 150       | 150        | 150       | 150     | 150    |  |
| Maximum Temperature              | Deg. F | 122       | 122       | 122        | 122       | 122     | 122    |  |
| Length                           | Inches | 7 1/2     | 7 1/2     | 7 1/2      | 9         | 9       | 10 3/4 |  |
| Length with Couplings            | Inches | 12 1/2    | 12 1/2    | 12 1/2     | 14 1/2    | 14 1/2  | 16 1/2 |  |
| Height                           | Inches | 4 3/4     | 4 3/4     | 4 3/4      | 4 3/4     | 4 3/4   | 5      |  |
| Weight                           | Pounds | 4.5       | 4.5       | 4.5        | 6         | 6.3     | 7      |  |

| MODEL                            |        | PMN08                 | PMN08M              | PMN09          | PMN10             | PMN11             | PMN11M          | PMN12      |
|----------------------------------|--------|-----------------------|---------------------|----------------|-------------------|-------------------|-----------------|------------|
| SIZE                             |        | 1-1/2" Female Threads | 1-1/2" Male Threads | 1-1/2" Flanged | 2" Flanged 10" LL | 2" Female Threads | 2" Male Threads | 2" Flanged |
| High Flow Rate                   | USGPM  | 100                   | 100                 | 100            | 160               | 160               | 160             | 160        |
| Continuous Flow                  | USGPM  | 50                    | 50                  | 50             | 80                | 80                | 80              | 80         |
| Starting Flow                    | USGPM  | 1/2                   | 1/2                 | 1/2            | 3/4               | 3/4               | 3/4             | 3/4        |
| Normal Flow                      | USGPM  | 5-100                 | 5-100               | 5-100          | 8-160             | 8-160             | 8-160           | 8-160      |
| Low Flow                         | USGPM  | 1 1/2                 | 1 1/2               | 1 1/2          | 2                 | 2                 | 2               | 2          |
| Extreme High Flow (Intermittent) | USGPM  | 120                   | 120                 | 120            | 180               | 180               | 180             | 180        |
| Maximum Working Pressure         | P.S.I. | 150                   | 150                 | 150            | 150               | 150               | 150             | 150        |
| Maximum Temperature              | Deg. F | 122                   | 122                 | 122            | 122               | 122               | 122             | 122        |
| Length                           | Inches | 12 5/8                | 12 5/8              | 13             | 10                | 15 1/4            | 15 1/4          | 17         |
| Length with Couplings            | Inches | -                     | 18 5/8              | -              | -                 | -                 | 21 1/2          | -          |
| Height                           | Inches | 7                     | 7                   | 7              | 7                 | 7                 | 7               | 7          |
| Weight                           | Pounds | 15                    | 15                  | 20             | 19                | 21                | 21              | 25         |

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