



Series  
1221  
1222  
1223

# Flex-Tube® U-Tube Manometers

TEST EQUIPMENT

Manometers,  
Portable



1221



1222



1223

## STANDARD ACCESSORIES

**Series 1221** — 2 plastic carrying plugs; 2 flexible plastic tubing connectors for attachment of 3/16" rubber or plastic tubing without kinking. 1 ounce bottle .826 sp. gr. red gage fluid furnished for "D" style manometers. Fluorescein green dye concentrate furnished with "W/M" style manometers.

**Series 1222** — 2 magnetic mounting clips; tube clamp; 2 plastic carrying plugs and 2 flexible plastic tubing connectors for attachment of 3/16" rubber or plastic tubing without kinking. 1 ounce bottle .826 sp. gr. red gage fluid furnished for "D" style manometers. Fluorescein green dye concentrate furnished with "W/M" style manometers.

**Series 1223** — Magnetic mounting clips; tube clamp and Type "a" connections consisting of two rapid shut off molded nylon tubing connectors; two 1/8" pipe thread to tube adapters; two 3-foot lengths of Tygon® plastic tubing, 1 ounce bottle .826 sp. gr. red gage fluid is furnished for "D" style manometers; fluorescein green dye concentrate with "W/M" style.

| Range                   |                              | Hg Required to Fill |        | 1221, 2 & 3 Scale Length "A" |        | 1221 & 2 O.A. Length "B" |        | 1223 O.A. Length "B" |        |
|-------------------------|------------------------------|---------------------|--------|------------------------------|--------|--------------------------|--------|----------------------|--------|
| Inches H <sub>2</sub> O | Millimeters H <sub>2</sub> O | Grams               | Ounces | W/M                          | D      | W/M                      | D      | W/M                  | D      |
| 8 (4-0-4)               | M200 (100-0-100)             | 178.5               | 6.3    | 12-1/4                       | 14     | 15-1/4                   | 17     | 18-1/2               | 19-7/8 |
| 12 (6-0-6)              | M300 (150-0-150)             | 225.5               | 7.9    | 16-1/4                       | 18-7/8 | 19-1/4                   | 21-3/4 | 21-1/8               | 24-5/8 |
| 16 (8-0-8)              | M400 (200-0-200)             | 269                 | 9.5    | 20-3/8                       | 23-5/8 | 23-1/4                   | 26-1/2 | 26-1/8               | 30-3/8 |
| 20 (10-0-10)            | M600 (300-0-300)             | 314.5               | 11.1   | 24-1/4                       | 28-1/2 | 27-1/4                   | 31-1/2 | 30-1/8               | 34-3/8 |
|                         |                              | 353.1               | 12.4   | 27-7/8                       | 32-7/8 | 30-3/4                   | 35-3/4 | 33-5/8               | 38-5/8 |
| 24 (12-0-12)            | M1000 (500-500)              | 379.7               | 13.4   | 28-1/4                       | 33-3/8 | 31-1/2                   | 36-1/4 | 33-3/8               | 39-1/8 |
| 36 (18-0-18)            |                              | 491.1               | 17.3   | 40-1/4                       | 47-7/8 | 43-1/4                   | 50-3/4 | 46-1/8               | 53-5/8 |
|                         |                              | 526.6               | 18.5   | 43-5/8                       | 52     | 46-1/2                   | 55     | 49-3/8               | 57-7/8 |

Not recommended for vacuum service above 5 in. Hg (68 in w.c.).

These inexpensive manometers measure positive, negative and differential pressures. Dwyer® Flex-Tube® U-Tube Manometers combine the inherent accuracy of the simple "U" Tube with the durability of tough, long-lasting plastic construction. Columns are of .375" OD flexible and shatter proof clear butyrate tubing. They are easily accessible for cleaning. Indicating tube is backed by white scale channel to provide maximum color contrast. Scales are extruded high impact polystyrene plastic, formed to hold columns in perfect alignment. Stark white scales have graduations and numbers silkscreen-printed in black for maximum legibility.

You can choose from numerous models and features including over-pressure safety traps, in full-scale ranges from 8" to 36" of water or mercury. All are suitable for total pressures to 100 psi — for determining velocity and static pressures, leakage, fan and blower efficiency, filter resistance, and gas pressures. Ideal wherever a portable, direct reading manometer is needed. Standard ranges and markings as shown, or special ranges, colors, logos and brand names for OEM quantity orders are available.

**Minor Divisions** of 1/10 in w.c. (or 2 mm w.c. on metric units) are silkscreened in jet black on stark white scale for positive definition. Easy to read, even at a distance, they are acrylic coated for permanence. All models are furnished with one 1 ounce bottle of fluorescein green color concentrate with special wetting agent for W/M models, or 1 ounce bottle of red gage fluid for "D" units.

**Series 1221 Manometer**, Our simplest, lowest cost basic U-gage. A dependable U-tube manometer that withstands hard use and provides accurate, high visibility readings. For use with water, mercury or red gage fluid. For mercury filled manometers, a scale clamp bar, Dwyer® Part No. A-363 (available as an extra for Series 1221 — and standard on Series 1222) is recommended. One pair of carrying plugs and a pair of non-kink vinyl tube connectors are included with each manometer.

**Series 1222 Manometer**, All the features of the 1221 plus magnetic clips for mounting to any vertical steel surface, and clamp bar to insure against U-tube slipping. (Especially recommended for manometers used with mercury.) Both magnets are easily removed and replaced at the user's convenience.

**Series 1223 Manometer**, Our finest U-gage — for either portable or stationary use. Safety traps prevent loss of indicating fluid in case of accidental over-pressure. Tubing is permanently bonded to a molded, high impact acrylic plastic top that contains safety traps. Large magnetic clips and clamp bar are provided. Standard type "a" connections include two rapid shut-off type molded nylon tubing connections, two 3-foot lengths of flexible Tygon® plastic tubing, and two 1/8" pipe thread to tube adapters.

| 1221           | 1222           | 1223           |                           |
|----------------|----------------|----------------|---------------------------|
| Model          | Model          | Model          | Ranges                    |
| 1221-8-W/M     | 1222-8-W/M     | 1223-8-W/M     | 8 (4-0-4) in w.c.         |
| 1221-12-W/M    | 1222-12-W/M    | 1223-12-W/M    | 12 (6-0-6) in w.c.        |
| 1221-16-W/M    | 1222-16-W/M    | 1223-16-W/M    | 16 (8-0-8) in w.c.        |
| 1221-20-W/M    | 1222-20-W/M    | 1223-20-W/M    | 20 (10-0-10) in w.c.      |
| 1221-24-W/M    | 1222-24-W/M    | 1223-24-W/M    | 24 (12-0-12) in w.c.      |
| 1221-36-W/M    | 1222-36-W/M    | 1223-36-W/M    | 36 (18-0-18) in w.c.      |
| 1221-M200-W/M  | 1222-M200-W/M  | 1223-M200-W/M  | M200 (100-0-100) mm w.c.  |
| 1221-M300-W/M  | 1222-M300-W/M  | 1223-M300-W/M  | M300 (150-0-150) mm w.c.  |
| 1221-M400-W/M  | 1222-M400-W/M  | 1223-M400-W/M  | M400 (200-0-200) mm w.c.  |
| 1221-M600-W/M  | 1222-M600-W/M  | 1223-M600-W/M  | M600 (300-0-300) mm w.c.  |
| 1221-M1000-W/M | 1222-M1000-W/M | 1223-M1000-W/M | M1000 (500-0-500) mm w.c. |

Note: To order models with red gage fluid change -W/M to -D.

## OPTION

For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 1230-8-W/M-NIST.

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