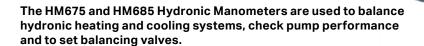


Hydronic Manometers

Models HM675, HM685



They can measure and display differential, high side and low side pressure simultaneously, without having to change hose connections or instrument valve settings. Each model features a backlit display and operates on four alkaline or NiMH rechargeable batteries.

Applications

- Test and balance heating and cooling systems
- Check pump performance
- Set balancing valves

HM675 kit includes hard carrying case, (2) 6.7 ft x 1 4-in. (2 m x 6 mm) hoses with shut-off valves, (2) B&G readout probes, (2) P/T gauge adapter probes, and power cord.

HM685 kit includes all items in HM675 kit, plus a temperature probe, CompuDat USB downloading software, and USB interface cable.

Features and Benefits

- Measure and display high side, low side, and differential pressure simultaneously
- Robust, splash-proof case
- Inputs for two temperature probes

Features and Benefits (HM685 only)

- Calculates flow using valve manufacturers' Cv (Kv) factors [up to 100 Cv (Kv) can be entered]
- Calculates heat flow, impeller diameter and brake power
- Stores up to 4,000 data points to memory for later recall/ download to a PC using CompuDat™ USB Software and USB interface cable
- Intuitive menu structure for easy navigation and instrument set up



Specifications

Hydronic Manometers

Models HM675, HM685

Pressure

Differential Range

-300 to 300 psi (-2,068 to 2,068

kPa)

Gauge Range

-20 to 300 psi (-138 to 2,068 kPa)

(-40 to 610 in. Hg)

Resolution (best)

0.001 psi (0.01 kPa) (0.01 in. Hg)

Accuracy¹

±1% of reading plus .072 psi

(0.5 kPa) (0.15 in. Hg)

Units

psi, in. H₂O, ft H₂O, kPa, mm Hg,

in. Hg, m H₂O, bar

Pressure Connection

1/4" 37° flare fitting, Male

Temperature

Operating (electronics)
Storage

40 to 113°F (5 to 45°C) -4 to 140°F (-20 to 60°C) 32 to 180°F (0 to 82°C)

Probe (immersion)

-40 to 250°F (-40 to 121 °C)

Resolution

Liquid Media

0.1°F (0.1°C)

Accuracy

±0.5% of reading +1.2°F (0.7 °C)

Units

°F. °C

Flow (HM685 Only)

Range²

-22,712 to 22,271 m³/h, -99,999 to 99,999 USGPM

Resolution (best)

0.0001 USGPM (0.00001 l/s)

Accuracy

per pressure accuracy

(-6,309 to 6,309 l/s)

locaracy

+ valve deviation

Units

USGPM, UKGPM, m^3/h , l/s, l/m

Time Constant

User selectable (1, 5, 10, 20, and 30 seconds)



Statistics (HM685 only)

min, max, average, sum up to 4,000 readings

Data Storage (HM685 only)

4,000 combined readings, 100 Test IDs

Logging Interval (HM685 only)

User selectable (1 to 3,600 seconds)

External Meter Dimensions

11.1 in. × 4.7 in. × 3.5 in. (28.2 cm × 11.9 cm × 8.8 cm)

Meter Weight with Batteries

2.65 lbs (1.20 kg)

Power Requirements

Four AA-size cells, or AC adapter

| HM675 | HM685 |
|----------|----------|
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| | |
| optional | • |
| - | • |
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| HM675 | HM685 |
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| | _ |
| | optional |

Accuracy statement applies from -15 to 250 psi (-103 to 1,724 kPa)

Specifications subject to change without notice.

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² The flow reading is a calculated value determined from the measured Differential pressure, user entered valve flow coefficient (Kv or Cv), and fluid specific gravity