HYDRONIC MANOMETERS MODELS HM675, HM685

The HM675 and HM685 Hydronic Manometers are used to balance hydronic heating and cooling systems, check pump performance and to set balancing valves. 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.

Features and Benefits

- + Measure and display high side, low side, and differential pressure simultaneously from 0 to 300 psi (0 to 2,068 kPa)
- + 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

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 ¼-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.



SPECIFICATIONS

HYDRONIC MANOMETERS MODELS HM675 AND HM685

Pressure

Differential Range Gauge Range Resolution (best) Accuracy¹

Units

Pressure Connection

Temperature

Operating (electronics) Storage Liquid Media Probe Resolution Accuracy

Units

Flow (HM685)

Range²

Resolution (best) Accuracy

Units Time 0 to 2,271 m³/h, 0 to 9,999 USGPM (0 to 6,31 l/s) 0.0001 USGPM (0.00001 l/s) per pressure accuracy + valve deviation USGPM, UKGPM, m³/h, l/s, l/m Constant

0 to 300 psi (0 to 2,068 kPa)

0 to 300 psi (0 to 2,068 kPa)

±1% of reading or .072 psi (0.5 kPa),

psi, in. H₂O, ft H₂O, kPa, mm Hg, in. Hg,

0.001 psi (0.01 kPa)

whichever is greater

1/4" 37° flare fitting, Male

40 to 113°F (5 to 45°C)

32 to 180°F (0 to 82°C) -40 to 250°F (-40 to 121 °C)

-4 to 140°F (-20 to 60°C)

±0.5°F (0.3°C) from 32 to 160°F

(0 to 71°C); max ± 2.0°F (1.2°C) from

-40 to 32°F (-40 to 0°C) and from 160 to 250°F (71 to 121°C)

m H₂O, bar

0.1°F (0.1°C)

°F, °C

Statistics

min, max, average, sum up to 4,000 readings (HM685 only)

Data Storage

4,000 combined readings, 100 Test IDs (HM685 only)

Logging Interval (HM685 only)

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

External Meter Dimensions

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

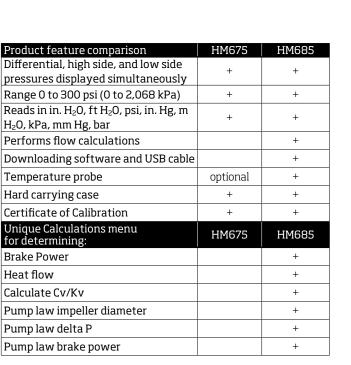
Meter Weight with Batteries

2.65 lbs (1.20 kg)

Power Requirements

Four AA-size cells, or AC adapter

¹ Accuracy statement applies from 0 to 250 psi (0 to 1724 kPa)
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 Specifications subject to change without notice.







UNDERSTANDING, ACCELERATED

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