COMDRONIC™ AC7-HP

HIGH-PRESSURE Commissioning Meter

'Electronic Manometry in the 21st Century'

Simplicity and sophistication in a single meter for commissioning water-based HVAC systems.

Extensive Valve Database—At Your Fingertips!

- The performance characteristics of over 5,000 valves — from 70+ manufacturers — are pre-programmed into the AC7.
- This extensive knowledge-base is continuously being updated as new valves are introduced onto the market.
- Valve data is always updated whenever an AC7 meter is serviced by us.

Simplicity

- The nine-button navigation keypad couldn't be simpler to use.
- Screen backlights ensure that readings are always easy to read, even in the darkest of areas.

Sophistication

- The use of industry-leading pressure-sensors gives extremely high measurement accuracy.
- Bespoke firmware delivers a powerful, flexible, easy-to-use tool for the discerning commissioning engineer.

Convenience

- Lightweight, portable and compact. Supplied in a robust carry case, complete with quick-release connection hoses, Binder-style connection adaptors, tools, and comprehensive instructions.
- Full technical and service support is provided by Comdronic, in the UK.

Visit our website at **www.comdronic.co.uk**

COMDRONIC LTD

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COMDRONIC AC7-HP SPECIFICATION

Technical Description

The Comdronic™ AC7 is an electronic manometer, programmed to carry out differential pressure measurements primarily on balancing valves in the building services industry. The state-of-the-art software and an extensive database of the world's balancing valves allows direct reading of flow, differential pressure, percentage of design flow and target flow.

The nine button design allows simple navigation of the easy-to-follow menu system, with all parameters visible on screen.

System accuracy is achieved by the use of carefully selected sensors with resolution and accuracy most appropriate for the range of differential pressures being measured.

Measurement Accuracy

+/- 1% of reading or +/- 0.2 kPa, whichever is the greater.
Hysteresis 0.2% span.

Measurement Range

1.0 kPa to 800 kPa.

Resolution

0.01 kPa.

Maximum Total System Pressure

20 bar.

Temperature Limitations

Ambient: +2°C to +45°C
Line Fluid (at the sensor): +2°C to +50°C

Effective Operating Time

20 hours with 1 x standard Alkaline PP3 battery.

Spares and Accessories

Replacement hose sets.
Mechseal-style adaptors.
Binder-style adaptors.
Temperature gauges.
Pressure gauges.
Replacement strainers.
Carry case tools.
Handset spares.

Contact Comdronic Ltd for further information and pricing, or visit: **www.comdronic.co.uk**

Valve Database

Comdronic instruments have an on-board database which has been carefully created and maintained over many, many years, and which currently includes the performance characteristics of over 5,000 balancing valves from 70+ brands / manufacturers.

Displays

DP and Flow Display — shows valve type, Kvs value, handwheel setting (variable orifice), differential pressure, flowrate, valve maker, valve type & valve size. Flow and Pressure are shown in large text.

Advanced Display — shows valve type, Kvs value, handwheel setting (variable orifice), design flow, target Flow, differential pressure, flowrate, valve maker, valve type & valve size.

DP Only Display — for use when the AC7 is being used as a simple manometer. Differential pressure is shown in extra-large text.

Flow Only Display — for use when fluid velocities are being measured for the purposes of system flushing. Flow is shown in extra-large text.

Storage of Commissioning Data

Up to 100 storage locations are available for manually storing valve information on site.

Help

Context-sensitive help is available for all functions. A dedicated button is available for this function.

Units

Differential Pressure — kPa, psi, bar, cmH_2O, IWGA, Ft HD or Pa.

Flow — l/s, l/m, l/h, USGPM, UKGPM, m^3/h, m^3/m or m^3/s (plus velocity units of m/s or f/s).

Edit Functions

Design flow, target flow, specific gravity, Kvs, valve maker, valve group, valve model, valve size, handwheel position.

Language Settings

Choose for available menu options to be displayed in English, French, Italian, Norwegian, Spanish or Swedish.