COMDRONIC™ AC7-SP+

STANDARD-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 6,500 valves — from 80+ 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.

www.comdronic.co.uk

COMDRONIC LTD

Sales, Service and Support from:
Comdronic Ltd, Unit 7 Alpha Terrace, West Road, Ipswich, Suffolk, IP3 9FD, UK
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COMDRONIC AC7-SP+ SPECIFICATION

Technical Description

The Comdronic™ AC7-SP+ is an electronic manometer—designed to carry out differential pressure measurements primarily on balancing valves in the building services industry. State-of-the-art software and an extensive database of the world's balancing valves allow 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 a wet/wet pressure-sensor, with resolution and accuracy carefully selected to suit the range-of-operation.

Measurement Accuracy

+/- 1.0% of reading or +/- 0.1 kPa, whichever is the greater.

Mid-Point Hysteresis (pressure decreasing) = +/- 1.4% of reading.

Measurement Range

0.5 kPa to 250 kPa.

Resolution

0.01 kPa.

Maximum Total System Pressure

10 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 connection tubes.
Service parts for connection tubes.
Mechseal-style connection adaptors.
Binder-style connection adaptors.
Service parts for connection adaptors.
Temperature gauges (insertion type).
Pressure gauges (insertion type).
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 6,500 balancing valves from 80+ brands / manufacturers.

As per user-preference, create a 'preferred manufacturers' list to speed valve selection.

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.

Velocity (Flushing) Display — for use when fluid velocities are being measured for the purposes of system flushing. Velocity is shown in large text.

Security PIN Code

As per user-preference, set an optional PIN Code, which will be asked for at every battery change.

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.

Velocity — m/s & ft/s.

Edit Functions

Design flow, target flow, specific gravity, Kvs, valve maker, valve group, valve model, valve size & valve setting.

Language Settings

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