

Engineering Specifications

PW30 – Differential Pressure, Water

1. The sensor shall be a wet-to-wet differential pressure sensor, using dual pressure transducers.
2. The sensor shall meet CE and RoHS requirements.
3. The sensor shall be powered by 12 to 30 VDC or 24VAC with power consumption of 5W max.
4. The sensor shall be able to output both 3-wire 0-5/10V and 2-wire loop powered 4-20mA.
5. The sensor shall have zero and span adjustments.
6. The sensor shall be factory calibrated and not required field calibration.
7. The sensor shall have an accuracy of $\pm 2\%$ for lowest range, $\pm 1\%$ otherwise.
8. The sensor shall have long term stability of $\pm 0.25\%$ Full Scale/year.
9. The sensor shall operate from -18 to +60C.
10. The sensor shall operate from 0 to 90% RH (non-condensing)
11. The sensor shall be Micro-machined silicon strain gauge.
12. The sensor shall offer the following pressure ranges and limits:
 - a. 0-5,10,25,50,100,150 PSID
 - b. Maximum 2X over range protection.
 - c. Maximum 5X or 20kPSI over range protection.
13. The sensor shall have a display to show the consumer the A, B, and differential pressures.
14. The sensor shall offer dip switches for the following functions:
 - a. Range selection
 - b. Test mode
 - c. Uni/Bi-Directional
 - d. Slow or fast response
 - e. Port Swap
 - f. Absolute Mode
15. The sensor shall have a NEMA 4/IP65 enclosure rating.
16. The sensor shall offer both an ABS and Metal enclosure.
17. The sensor shall include an option of a 3 or 5-value assembly.
18. The sensor electronics shall have a 7-year warranty.
19. The sensor shall have a 2-year warranty on all replaceable elements.
20. The sensor shall be manufactured in the USA.
21. The sensor shall be manufactured by Senva.