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Digital Gauges,

PIP #: DG/PI-1

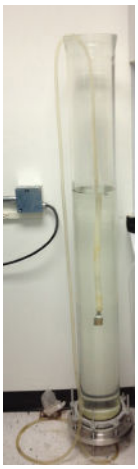
Applicable to:

DG25 ENVIRONMENTAL TESTING

Description: This test is designed to verify the environmental protection rating declared in the product specification (IP67).

Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).

Test Equipment: 6” diameter glass filled with 1 meter of water.





Test Subject: Typical DG25 off the production line (pressure range 10,000#).





Procedure: Secure the test unit to a tether in order to submerge and retrieve it (in this case the unit was threaded onto a fitting, which was attached to a long length of plastic tubing). Submerge the unit in 1 meter of water for 30 minutes.





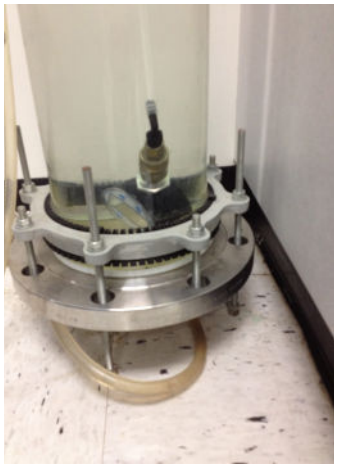
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DG25 ENVIRONMENTAL TESTING

Procedure: (Continued)







DG25 ENVIRONMENTAL TESTING

Procedure: After 30 minutes, remove the unit from the water. Use a compressed air gun to blow-off the exterior of the unit to ensure no false negative results are seen.







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DG25 ENVIRONMENTAL TESTING

Note: There are 5 possible entry points for water ingress.

1. O-ring seal, front window to case
2. O-ring seal, back cover to case
3. O-ring seal, socket to case
4. Keypad overlay
5. Case vent plug

1



2



3



4



5



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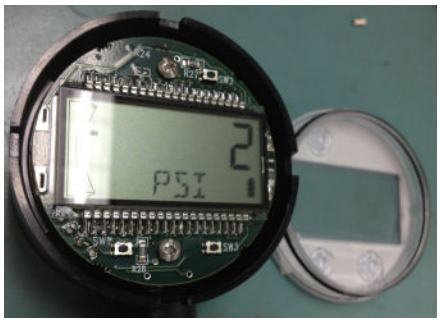
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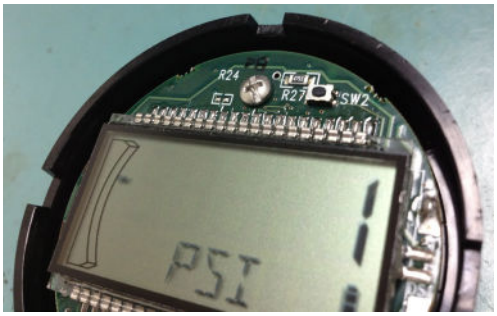
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DG25 ENVIRONMENTAL TESTING

Results: Gauge was completely disassembled and inspected. No signs of water ingress were detected

















Conclusion: This test confirms that the DG25 enclosure is compliant with the IP-67 standard. The DG25 gauge can therefore be claimed as an IP-67 rated product.

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