

APPLICATION NOTE

Displacer Replacer

Two retrofit options

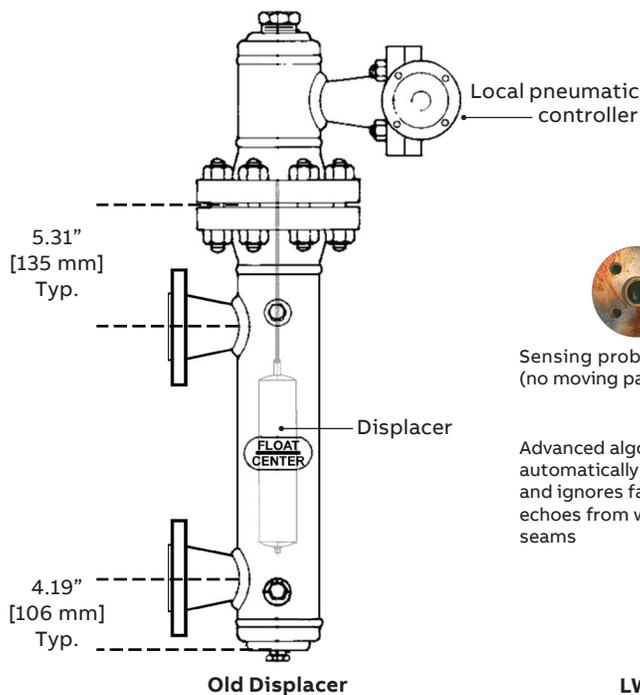
Before ABB

Many industrial sites have traditionally used numerous local pneumatic indicating displacer level controllers. These mechanical devices are high maintenance items, and the torque tube seal is a source for potential fugitive emissions. As customers have shifted to distributed control systems (DCSs), they have needed a good way to retrofit these types of level measurement instruments.

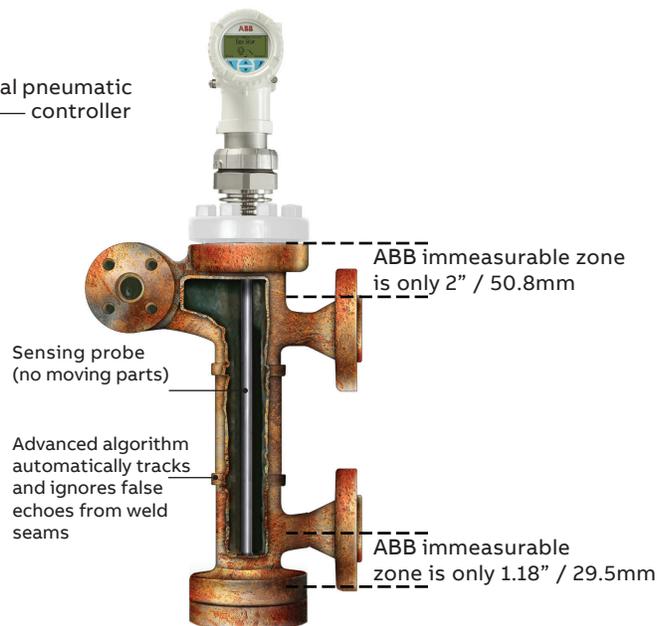
After ABB

An elegant solution is to upgrade the displacer with a direct insertion sensor such as the LMT100 with the floats designed specifically for the size/SG of the application or with the LWT310 guided wave radar.

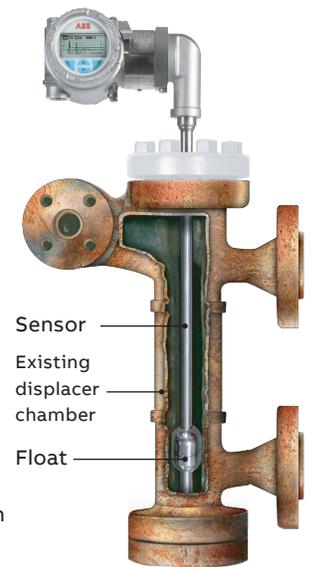
- Utilize existing displacer chamber
- Plug and play, user-friendly technology
- State-of-the-art, high accuracy and highly repeatable level measurement
- Eliminate sources for potential fugitive emissions
- No need for periodic maintenance



Old Displacer



LWT Guided Wave Radar



LMT100 Magnetostrictive Level Transmitter



e.g an old chemical plant



Pneumatic displacer systems



Old pneumatic system causing false alarms, increased maintenance and reduced energy efficiency



Upgrade the displacer with a direct insertion LMT100 with the floats designed specifically for the size/SG of the application or the LWT Series of guided wave radars

ABB recommends taking field measurements to ensure correct insertion length.

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