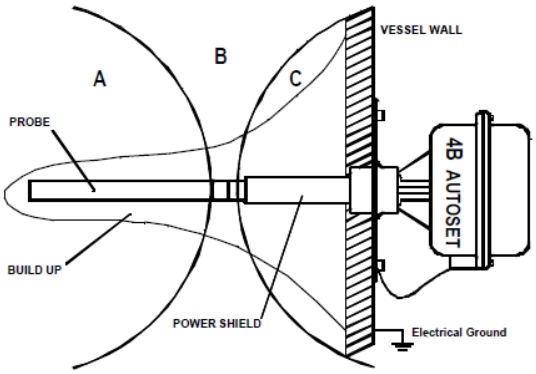
AutoSet Power Shield

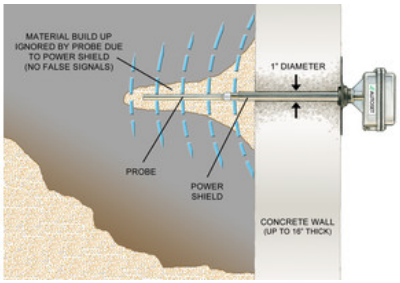
Improves Level Sensing Reliability

The extremely popular Autoset MK7 point level indicator is now available with a longer material build up Power Shield. Installation through thick concrete silos is now much easier and more reliable. Instead of a large 5” diameter hole, only a small 1” hole is required. The Autoset is now available in three standard power shield lengths, 4”, 12” and 16”. Only 1” of power shield is needed to protrude into the vessel for adequate material build up compensation to be achieved.

METHOD OF OPERATION

The The Autoset detects material by radiating a high frequency (RF) signal from the probe. The advanced electronics of the Autoset use this signal to measure the capacitance inside the vessel with respect to ground.





Power Shield Theory

To prevent false material readings, the Autoset incorporates an electronic Power Shield, which creates a barrier or shield and enables the unit to ignore material built up on the probe.

Section A: Build up of material on this section of the probe is ignored since it is insignificant in relation to the amount of air beyond it. IE the standing background capacitance has not changed significantly to have any adverse effect.

Section B: Build up of material between the probe and the power shield is electrically “invisible” because both points are at the same potential.

Section C: Due to the voltage gradient between the Power Shield and the vessel wall (electrical ground), build up of material in this area actually creates a protective field around the probe to eliminate the effect of material build-up on the probe.

Detailed specification, wiring diagrams and installation/operating instructions available upon request.

Please refer to instruction manual for correct installation.
Information subject to change or correction. Dec 2012

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