

Non Contact Radar RM70 for Open Channel Flow Measurement



Traditionally open channel flow measurement has been accomplished by ultrasonic level measurement or immersed pressure transmitters. However ultrasonic level can fail, or can give inaccurate level measurement when there is foam, vapors, or fumes present.

Solution

Typically in water and waste water industry, non-contact radar can be used to determine the open channel flow measurement. However, you need to know the channel characteristics i.e. relationship between level as well as volumetric flow depending on the type of the flume design like Parshal or Palmer Bowlus, Weirs, V notch etc. The equations or the relationship between volume of flow and level in the flume or Weir is information that is readily available. The flow versus level data can be entered into the radar Level transmitter as up to 50 points of a linearization table. This provides the operator with an output linear to flow.

Radar Level is then a high end alternative to ultrasonic and hydrostatic pressure transmitter in even the most difficult applications.

- **Open Channel:**
Venturi
- **Temperature:**
Ambient
- **Device:**
 - Connection: DN 80
PN 40
 - Sensor: DN 80
 - Sealing: Viton
 - Approval: Without



More Information

For more information on radar measurement, visit www.honeywell.com/ps/hfs or contact your Honeywell account manager.

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