Radar level measurement for the Water/wastewater industry

VEGA Inc.
Steve McCuskey
Municipal Industry Specialist – North America

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Who Is VEGA?
Local customer service, field service, experts to help
Why Partner With VEGA? (RADAR)

- Largest radar product offering
- Class 1 Div 1 / Ex proof
- Bluetooth
- 6.3 GHz, 26 GHz, 80 GHz
- High sensitivity electronics
- Loop powered
Measuring level in water and wastewater:

What technologies are used?
Measuring level in water and wastewater:

- Pressure Transducers
- Ultrasonic
- Bubblers
- Floats
- Capacitance/Conductive
- MultiTrode / Candycane
- Laser
Measuring level in w/ww: FLOATS
Measuring level in w/ww: Pressure Transducers
Measuring level in w ww: Ultrasonic
Measuring level in w/ww: Bubblers
Measuring level in water and wastewater: What technologies are used?
VEGAPULS WL 61 – optimized for the water/Wastewater industry

- 49° measuring range
- +/- 2mm accuracy
- C1D1 (IS)
- Housing
  - Submersible (water tight)
  - Protection IP 66/68 (2 bar)
- Temperature range
  - -40 ... +80 °C

NO Maintenance!

No Calibrations!
Measuring level in water and wastewater:

Four applications: Problem solving by utilizing reliable and accurate technology

- Lift Stations; heavy maintenance, poor reliability (humidity/foam/condensation)
- Chemical Tanks; poor accuracy, poor reliability
- Open Channel Flow; poor accuracy & temp changes…
- Bulk tanks, scum pits, Digesters; foam, dirt, condensation and temp changes hurt accuracy
Main applications…

Lift Stations / Wet wells
Lift Stations:
Lift Stations:
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Lift Stations:
Lift Stations:
Main applications…

Chemical tanks – drinking water / waste water
Chemical tanks
Chemical tanks

Double walled Poly (plastic) tank
Chemical tanks
Chemical tanks
Chemical tanks

Sharpie vs WL 61

Sharpie didn’t do a good job of sending a signal back to the main SCADA system!

Customer has purchased 3 more.
Chemical tanks
Chemical tanks
Chemical tanks
Chemical tanks
Chemical tanks

Display
1.018 ft
12.7 %
314.7 gal
Mounting
Any Questions?
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VEGA, Inc.       Steve McCuskey
s.mccuskey@vega.com  612-400-3258
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