

ATG – Automatic Tank Gauge System

Installation Requirements of MTG vs. Hybrid Radar

MTG Multi-Function Tank Gauge

One Instrument
 MTG Measures the following:
 Volume (Hydrostatic & Hybrid Methods),
 Mass, Level, Multi-point Spot
 Temperature, Multi-strata Density, Multi-
 strata Water, Vapor pressure, Vapor
 Temperature, Vapor Density, Mass
 Sensitivity for unauthorized movement,
 Mass flow rate, Volume flow rate, and
 optional ambient pressure, ambient
 temperature, ambient density, etc.

Can be installed with or without
 a gauge well (In service)

Gauge Hatch for
 manual reference
 hand lines to
 calibrate and verify
 accuracy of the
 ATG in accordance
 With API 3.1B



Tank Floor Movement
 Indicator (for verification if
 Tank bottom movement)

Power & Signal

- One – Electrical Connection
- One – Tank Entry Required
(with or without gauge well)
- One – Instrument spare parts
- One – Instrument training
- One – Instrument Initial
Calibration

Hybrid Radar Tank Gauging System

Instruments required:

- 1 – Radar Tank Gauge “Level”
- 2 – Multi-point Spot Temperature Probe
- 3 – Capacitance Probe “Free Water”
- 4 & 1 – DP Cell “Average Density”
- 5 – Controller / Local Display

- Four – Electrical Connection
- Three – Tank Entry Required
(You must install in a gauge well)
- Four – Instrument spare parts
- Four – Instrument training
- Four – Instruments to Calibrate

No manual reference point to
 verify calibration or the Radar
 Accuracy

Gauge well required

Calibration Pin
 down the Gauge Well?

Multiple electrical terminations,
 i.e., potential failure points

Temperature
 & Free Water?



Average
 Density

Hot tap required

Power & Signal

Key: Required Tank Openings

