



TD-80: Refuelers

Radar Liquid-Level Gauge & Overfill Prevention for Aircraft Refuelers

The TD80™ is the modern solution to an old problem — measuring and controlling liquid level/volume in an aircraft refueler

The TD80 is built on GWR technology —

“Guided Wave Radar”

A high-speed electronic pulse is “launched” down the probe, reflects off the surface of the liquid and returns back up the probe, where the total “flight” time of the pulse is calculated and thus the level is measured.

Traditional solutions involve either manual methods such as a dipstick, site glass or mechanical float based gauges. Using the TD80, you now have access to modern RADAR technology with no moving parts.

Liquid level/volume is shown on a digital display or monitoring unit in user defined units (gallons, litres etc), customized to the exact tank dimensions.

Programmable overfill alarms can be used for pump control, loading rack shutdown, horns, etc.

You no longer need to rely on high level probes or mechanical gauges that can be prone to failure and high maintenance costs.

Learn about the TD80 today:

North America's choice in refueler gauging and overfill prevention.

- Proven on installations since 1999.
- Complete level measurement and overfill prevention system designed for aircraft refuelers.

Display Features

- Built-in programmable alarm points: Fill, High-High, Overfill / Spill, and Low Level Alerts
- Helpful troubleshooting / error codes
- Easy to service
- Digital communications
- Finch II is CSA & NRTL/C approved for hazardous areas (Class I Div. 2)
- Displays level or volume

APPLICATIONS

Aircraft Refuelers

Trailer Mounted Tanks

Truck Mounted Tanks



Transmitter Features

- No float or moving parts
- High accuracy level measurement
- Environmental protection:
Safe and reliable spill prevention
- Straightforward installation
- Not required to enter the tank if service is needed
- Highest quality, rugged, modular industrial design
- CSA & NRTL/C Approved for hazardous area installations (*Class I Div. 1*)
- Wide range corrosion resistance
- Accuracy not affected by the liquid's density or dielectric constant
- Can be installed in some existing fittings
- PC based programming of display values in any units to the shape of the tank (*i.e. depth chart*)
- Level / Volume data retained without requiring a battery
- Wide temperature range
- Multiple displays with one transmitter
- Multiple transmitters with one display
- Wide range of liquids and applications
- Electronics weather protected, moisture protected
- Excellent performance at low temperatures

Liquid Compatibility

- Jet Fuel
- Av Gas
- Gasoline
- Diesel
- Waste Liquids
- Water Transport

Specifications for TD80™

- Power: 8 to 28 VDC
- Current consumption: 80mA @ 12 VDC
- Ambient Temperature Range:
-40°F (-40°C) to 185°F (85°C)
- Communications: SVBus
- Environment:
Hazardous Area Approvals
Class I, Div. 1 (*with exp. proof seal*)
Class I, Div. 2 (*without exp. proof seal*)
- Weatherproof: CSA Type 4
- Accuracy: +/- 5mm (0.2")
- Probe length: 8 feet
(*can be cut to fit at time of installation*)

Specifications for Finch II™

- Power: 8-30 V DC
- Current Consumption: 300mA at 12V DC
- Relay Ratings:
3.3A Max on any individual relay
AND 6.6A Max across all 4 relays
- Operating Temperature Range:
-40°F (-40°C) to + 149°F (+65°C)
- Communications:
TD80™ SVBus
RS-232 for communication
with third-party modems
- Hazardous area approvals:
CSA Class 1, Div. 2,
Groups C & D, T3
- Enclosure:
Flame retardant FRP
- Optional:
5332 In-Cab Display
4-20mA Output



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