

# TITAN LOGIX

## TD100™ / Finch II / Rack CM / API

### *The Intelligent Digital Radar Transmitter for Mobile Liquid-Level Measurement and Overfill Prevention*

The TD Series of Transmitters use Guided Wave Radar to produce a highly accurate measurement of liquid levels in mobile tankers.

The TD systems are leading edge:

- **No floats**
- **No moving parts**
- **No electronics in the tank**

#### **Enhanced Technology**

The intelligent TD100™ utilizes auto-tuning technology on an advanced digital platform to compensate for ambient temperature changes.

Built on the incredible legacy of the market leading TD80™ product, the next generation TD100™ now supports 10' (3m) dual rod probe length, providing up to 55% larger volume measurement for larger tankers, and stationary tanks - plus reduced top and bottom deadband spots.

Designed to thrive in even the harshest conditions, the transmitter enclosure is classified for hazardous locations (Class 1 Div. 1) and made from anodized aluminum.

The steel probes resists corrosion in a wide range of fluids:

- **Stainless Steel -316L for general use**
- **Hastelloy-C276 for acids and other corrosive fluids.**

#### **Easy to Install and Use**

The T100™ transmitter retrofits the TD80™ exactly, and uses the same simple process for a new installation. No moving parts to make clearances for.

The Finch II™ display is designed for simple installation and operation. The single-board configuration and built-in relays streamline the installation process, removing the need for additional parts.

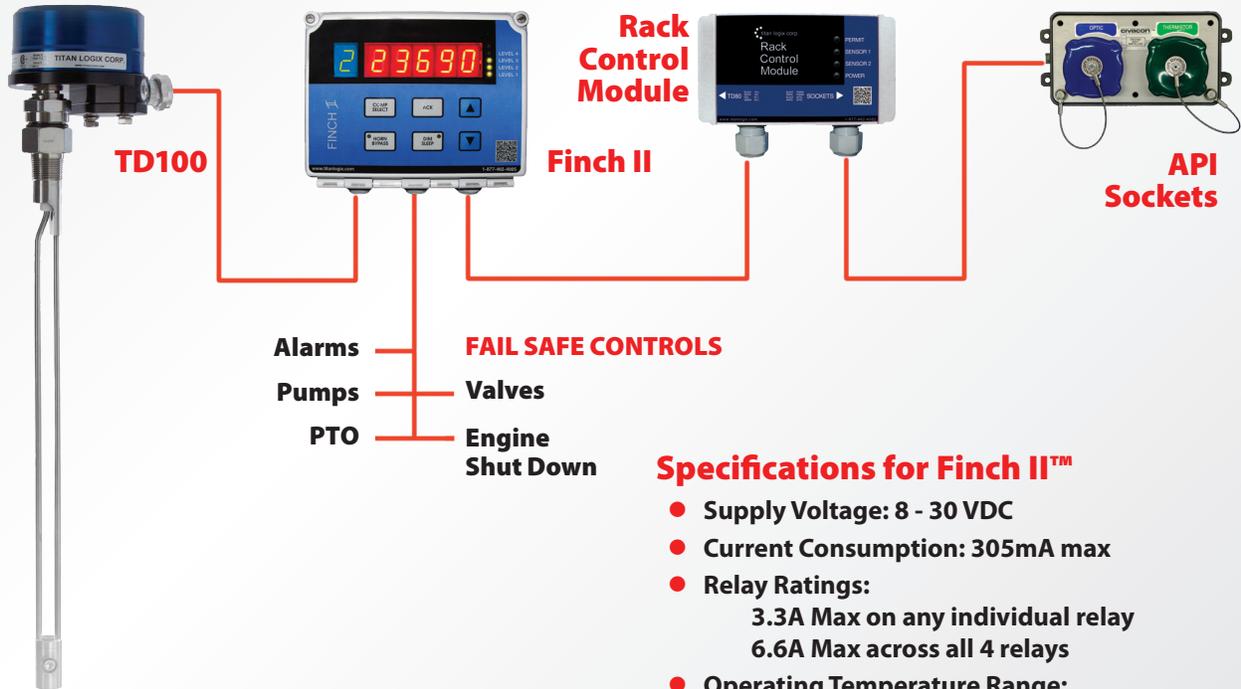
#### **TD100 System Features & Benefits**

Highly accurate level measurement with FAIL-SAFE alarms and controls all, in one rugged and reliable system!

- **Hazardous area approvals ensure operator safety**
- **Built-in programmable relays remove the need for an external relay module, making the unit easy and quick to install**
- **Controls are FAIL-SAFE meaning they will fail in a SAFE position and shut down loading, preventing overfills and spills if there is a failure**
- **Each controller can monitor fluid levels in up to two compartments**
- **Auto compartment select on alarms**
- **All Weather Proof**
- **Optic and Thermister loading rack compatible**



## Full TD100™ System Includes:



### Specifications for TD100™

- Supply Voltage: 8 - 30 VDC
- Current Consumption: 125mA max
- Accuracy: +/- 5mm (0.2")
- Ambient Temperature Range: -40°F (-40°C) to 167°F (75°C)
- Process Temperature Range: -49°F (-45°C) to 248°F (120°C)
- Outputs
  - SVBus Digital
  - Optional 4-20mA
- Hazardous area approvals:
  - Class I, Div. 1, Groups B, C, D
  - Class II, Groups E, F, G
  - Class III, T5
  - Class I, Div. 2, Groups A, B, C, D T4A
- ICES-003 Class B, FCC Part 15 Class B
- Probe length: 3048mm (10 ft)  
*(can be cut to fit at time of installation)*
- Enclosure:
  - NEMA Type 4/4x

### Specifications for Finch II™

- Supply Voltage: 8 - 30 VDC
- Current Consumption: 305mA max
- Relay Ratings:
  - 3.3A Max on any individual relay
  - 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 connection to optional Titan Gateway
- Hazardous area approvals:
  - CSA Class 1, Div. 2, Groups C & D, T3
- Enclosure:
  - Flame retardant FRP
  - NEMA 4 / IP68
- Optional:
  - 5332 In-Cab Display

### Specifications for Rack Control Module

- Interface device for connecting TD100 system to thermistor and optic style loading racks
- Monitor up to 2 compartments
- Hazardous area approvals:
  - CSA Class I, Div. 2, Groups C & D, T3
- Enclosure:
  - NEMA Type 4

4130 93 Street NW, Edmonton  
Alberta, Canada T6E 5P5  
www.titanlogix.com | info@titanlogix.com  
Toll-Free: 877.462.4085

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**LOGIX**  
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