

FINCH II–W
Installation

Quick Reference Guide (v1.1)



TD100



FINCH II-W

A Logix Titan system must be installed and operated in accordance with the details described in the Titan Logix manuals, application notes, and all other relevant publications.

WARNING: Only qualified personnel familiar with the installation and operation of this equipment should install, adjust, operate, or service this equipment. Failure to observe these instructions could result in bodily injury or loss of life.

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Dual Rod
Probe
& Anchor
Cone



Coaxial Probe

✓	CHECKLIST
	Ensure no flammable gases and/or fumes are present before installation or repair.
	Turn the vehicle power off before beginning any installation activity.
	Ensure the tank is drained of liquid and free of vapors.
	Observe all federal, state/provincial, and local safety standards and industry best practices.
	Ensure all required tools are available for installation.
	Secure all wires and cables with clips or cable ties and tighten all compression fittings.
	Refer to the TD100 Installation & Operation Manual (TPM 057), FINCH II Installation & Operation Manual (TD010), and the RCM installation manual (TPM 007) to view detailed procedures of steps outlined in this Quick Reference Guide.

Observe the following instructions during installation:

- i. Wire splices should be made inside a weatherproof enclosure or junction box to prevent premature failure due to corrosion.
- ii. The TD100 transmitter terminal wiring area forms an explosion-proof enclosure. Care must be taken when opening or closing the enclosure.
- iii. To avoid damage due to water ingress the following care must be taken:
 - Only 1 cable should be inserted per strain relief (gland)
 - The cable's outer diameter must be at least 0.260 inches (6.6mm)
 - Tighten the strain relief until the cable is secure.
- iv. Every FINCH II – W leaves the factory with **2 strain reliefs (glands) and 2 plugs**.
 - If the installation requires more than 2 glands, remove plugs to replace them with glands.

1

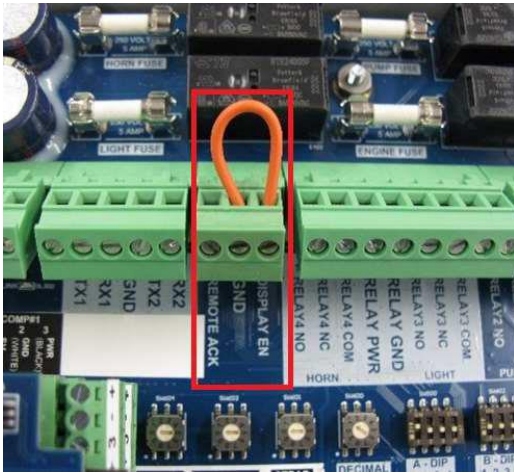
Mount the FINCH II-W Display



- a. Attach the mounting tabs to the back of the FINCH II-W display.
- b. Mount the display, ensuring that the unit is:
 - Installed in a location that does not exceed Class 1, Div. 2 hazardous area classification.
 - Mounted in a protected area, shielded from wheel spray and stones.
 - Not operated in temperatures less than -40C and greater than +65.

2

Enable Remote Display



- a. To enable the display to stay ON while in use, access the FINCH II-W circuit board and connect DISPLAY EN and GND using a jumper wire as shown.

3

Connect TD100 to FINCH II-W



- a. Use the Titan-supplied explosion-proof harness (wire kit) to connect the TD100 cable to the FINCH II-W.
- b. Insert wires from the explosion-proof elbow into the 1/2" thread for the connector and tighten the union nut on the TD100 (see top view).
- c. Make the following connections:
 - i. TD100 Power (PWR) to FINCH II-W Power (PWR) - Black Wire
 - ii. TD100 Ground (GND) to FINCH II-W Ground (GND) - White Wire
 - iii. TD100 SV (SV Bus) to FINCH II-W SV (SV) - Red or Green Wire



4

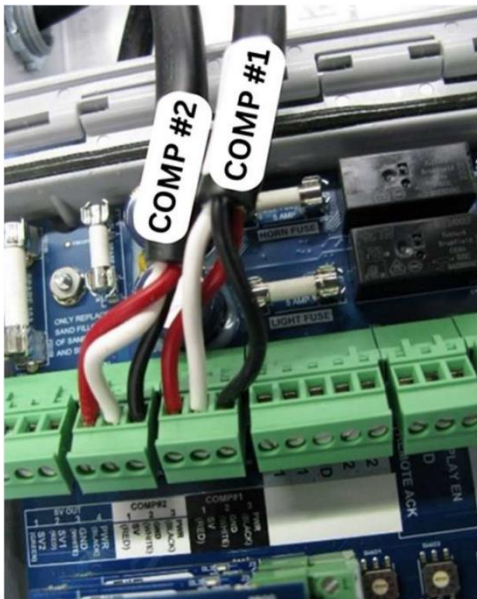
Connect to the Vehicle Power



- TRAILERS - connect the FINCH II power and ground to the nose box or junction box electrical connector.
TANK TRUCKS - connect FINCH II system power to a switched accessory power connection from the battery.
- Pass the power cable from a vehicle through a strain relief (gland) and connect it to power and ground as shown in the image.
- Tighten the strain relief until the cable cannot be pulled, leaving enough cable inside to open the door.

5

Connect to Compartments 1 and 2



- Install wire harness from TD100 on Compartment 1 through a gland to COMP #1 following the color sequence as shown in the picture.
- Install wire harness from TD100 on Compartment 2 through a gland to COMP #2 following the color sequence as shown in the picture.

Note: Some wire harnesses have GREEN coloured wired instead of RED, ensure the colour sequence matches what was connected to the TD100 terminal strip.



6



Complete the Installation

- a. Close and tighten the screws of the FINCH II-W enclosure, ensuring all connections are secure before applying power to the TD100 system.
- b. Complete the programming of FINCH II-W following the steps described in *FINCH II Programming and Configuration Guide*.
- c. Visually confirm if the number of compartments displayed in the Finch II-W matches the number of compartments in the truck.
- d. In the event error messages are observed when applying power to the system, refer to the Troubleshooting section of the TD100 Installation & Operation Manual (TPM 057).