

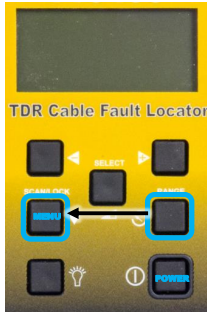


APPLICATION NOTE

JUNE 2016

QUICK START GUIDE FOR THE Pro400 TDR

Getting to the Menu list.



Turn the unit on by pressing the Power button.

Select the List Menu by pressing Range and Scan together.

In the list use the down arrow ▼ key to move down the menu and ◀ and ▶ keys to select from the choices.



- Select TDR (rather than tone trace)
- Select %Vc (Vp as a percent of light speed)
- Pick a likely Vp from the chart (e.g., 67)
- Select Main 25Ω (solid power wire) or T/P 100Ω
- Select Feet (rather than meters)
- Choose a battery-saver shutdown time.
- Exit the Menu by hitting the Range button.

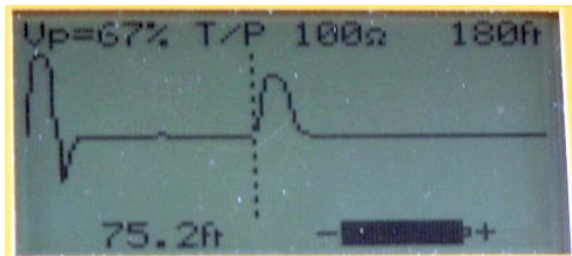
Launching a scan.



Connect the TDR to a test cable at least 6 feet long, open at one end.

Launch a TDR pulse scan by pressing the Scan/Lock key.

To cause continuous scanning briefly press and hold the Scan key.



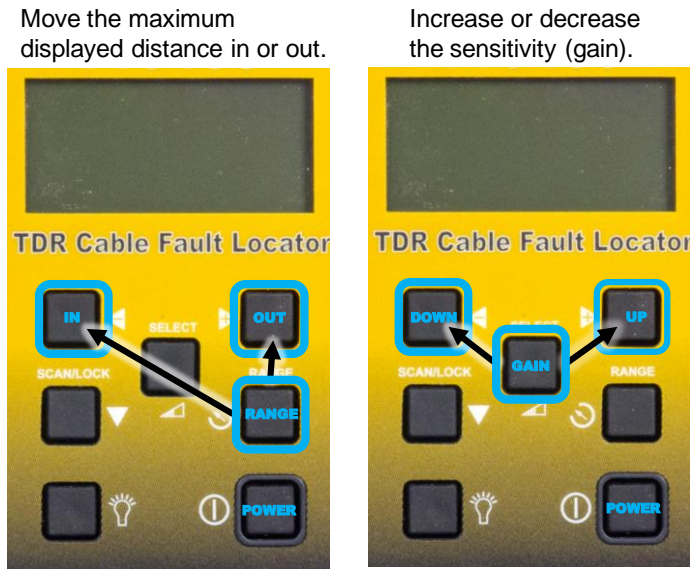
Adjust the range scale to something close to the cable length. This shows a 75-foot cable and a 180-foot range.

Observe the upward blip of an open circuit representing the end of the cable.

QUICK START GUIDE FOR THE Pro400 TDR (continued)

If the distance cursor is not reading correctly adjust the Vp in the list menu until the distance matches the known cable length. The final Vp is the one you should use for this cable type in the future.

To adjust the range scale and change the sensitivity use the ◀ and ▶ keys together with the Range or Select buttons as shown below.



Refer to the *Pro400 TDR Cable Fault Locator Operating Instruction Manual* for more detail.





APPLICATION NOTE

Cable Correction Factor Table (VoP or VP) for TDRs For reference only

Armada Technologies LLC

<u>Straight</u>	<u>Coiled</u>	<u>Buried</u>	<u>Conduit</u>	<u>Range</u>	<u>Nominal</u>	CABLE TYPE	<u>Impedance Setting</u>
					85	Coax Cable - Trunk	75
					83	Coax Cable - RG6/U Triple or Quad Shield	75
				78 - 82	82	Coax Cable - RG6/U Dual Shield	75
63	72				66	Coax Cable - RG59/U	75
					67	Cat 5 UTP	100
72	58				70	16 gauge Speaker Wire	25
	66			63 - 75	66	12/2 with Gnd Romex	25
				55 - 60	59	14/2 NM	25
					58	24 AWG Loose Pair	100
62	58					4 Conductor Telephone Wire	100
				70 - 84	77	8 to 16 AWG THHN in Conduit	25
73	70	57				Decoder Cable - ID1	25
60						Decoder Cable - MAXI	25