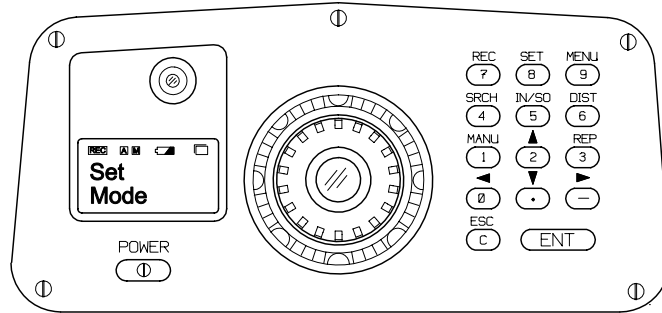


TOPCON DL-101 DIGITAL LEVEL - SET MENU OPTIONS AND SETUP

The Set Mode menu allows the user to select a variety of different options that affect the way the level operates. The set menu allows the user to select measuring units, communication parameters, etc. The settings remain unchanged even when the power is off. The items in bold print are the suggested settings for running first and second order levels to National Geodetic Survey procedures and specifications. Press the SET key (number 8) and use the Up/Dn arrows (number 2 and decimal .) on the keyboard to cycle through the options. To change an option or execute an item, press the Enter key.

**Topcon DL-101
Display and Keyboard**



	Operating Procedure	Operation	Display
1.	Set Menu - Press the power button to turn on the level then press the [SET] key - Set Mode appears briefly in display, then display changes to whatever option item was last accessed.	[Set]	Set Mode
2.	Use the Up/Dn arrow keys to scroll through the Set Mode items. Check Battery - Check battery voltage. Press the ENT key to display battery voltage.	[Ent]	Check ↕ Battery Battery 7.46 V
3.	Set Measure - Set measurement method: Continuous, Single, N-times. Use the Up/Dn arrow keys to scroll through the three choices. Select - N-times and press [Ent] to enter 2 to 99 measurements. Use the Up/Dn arrows to select 03 measurements. Then press [Ent] to exit.	[Ent] ↕ [Ent] ↕ [Ent]	Set ↕ Measure Measure↕ N Time N ↕ 03
4.	Set Fix - Set the minimum units read by the level to Standard 0.1 mm or Precise 0.01 mm. Use the Up/Dn arrows to select Standard or Precise. Select - Precise and then press [Ent] to exit.	[Ent] ↕ [Ent]	Set ↕ Fix Fix ↕ Precise

5.	<p>Set Item - sets Standard or Extended data display in line leveling. Extended adds display of Imbalance and Total Imbalance to display.</p> <p>Use the Up/Dn arrows to select Standard or Extended. Select - Extended and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Set Item ↕</p> <p>Item ↕</p> <p>Extended ↕</p>
6.	<p>Display Time - Set the duration in, 1-9 secs., that the data screens are displayed.</p> <p>Use the Up/Dn arrows to select 1-9 seconds. Select - 3 or longer to observe display and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Display Time ↕</p> <p>Select 3 Sec ↕</p>
7.	<p>Display Unit - Display distance units. Meters or Feet US</p> <p>Use the Up/Dn arrows to select m for meters or ft US for feet. Select - m and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Display Unit ↕</p> <p>Unit m ↕</p>
8.	<p>Out Module - Option that determines if and where the data will be stored, RAM, Off, RS232-C.</p> <p>Use the Up/Dn arrows to select Off, Ram, or RS232C. Select - RAM and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Out Module ↕</p> <p>Module Ram ↕</p>
9.	<p>File Out - Used when sending data file to an external device i.e. PC. Explained later in data transfer section.</p>		<p>File Out ↕</p>
10.	<p>Set Comm - Used to set communication parameters. These parameters have to match the setup in the PC TDS software so the data can be transferred from the instrument to the PC.</p> <p>Use the Up/Dn arrows to select STD (standard) or Manu (manual). Select - Comm Manu then press [Ent] and use Up/Dn arrows and to set the following items. Note: these settings should match parameters set in PC TDS software.</p> <p>Set Baud - Use Up/Dn arrows to scroll through baud rates until 9600 and then press [Ent]</p> <p>Set Parity - Use Up/Dn arrows to scroll through parity settings until Even and then press [Ent]</p> <p>Set Term - Use Up/Dn arrows to select CR/LF Off or On. Select CR/LF Off and then press [Ent]. To exit press [Esc] to return to Set Menu.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p> <p>↕</p> <p>[Ent]</p> <p>↕</p> <p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Set Comm ↕</p> <p>Comm Manu ↕</p> <p>Set Baud ↕</p> <p>Set Parity ↕</p> <p>Set Term ↕</p>
11.	<p>Auto Cutoff - Toggles auto cutoff off or 5 min. When on, powers down after 5 minutes.</p> <p>Use the Up/Dn arrows to select Off or 5 min. Select - 5 min. and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↕</p> <p>[Ent]</p>	<p>Auto Cutoff ↕</p> <p>Cutoff 5 min ↕</p>

12.	<p>Set Bright - Used to change the brightness of the display. 9 settings.</p> <p>Use the Up/Dn arrows to select Bright 1 to 9. Select - Choose Brightness 1 to 9 your preference.</p>	<p>[Ent]</p> <p>↑ [Ent]</p>	<p>Set Bright ↑</p> <p>Choose Bright 3</p>
13.	<p>Check Time - Used to display and edit the date and time. Press [Ent] to execute.</p> <p>When date is displayed, quickly press [ESC] to enter a new date value.</p> <p>Date ? prompt appears then enter date in mmddyy format and then press [Ent] to exit.</p> <p>When Time appears, quickly press [Esc].</p> <p>Time ? entry prompt appears, then enter new time in hhmmss format and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>[Esc]</p> <p>[Ent]</p> <p>[Esc]</p> <p>[Ent]</p>	<p>Check Time ↑</p> <p>3/22/02</p> <p>Date?</p> <p>Date ? 022102</p> <p>Time 11:29:01</p> <p>Time ?</p> <p>Time? 113022</p>
14.	<p>Inverse Mode - Sets the level to measure an inverted rod.</p> <p>Use Up/Dn arrows to select 'Use' or 'Not Use'. Select - 'Not Use' unless rod is inverted.</p>	<p>[Ent]</p> <p>↑ [Ent]</p>	<p>Inverse Mode ↑</p> <p>Inverse ↓ Not Use</p>
15.	<p>Set Light - Turn the display backlighting ON or Off.</p> <p>Use Up/Dn arrows to select Light On or Off. Select - Off unless needed and then press [Ent] to exit.</p>	<p>[Ent]</p> <p>↑ [Ent]</p>	<p>Set Light ↑</p> <p>Light ↑ Off</p>