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SURVEY EQUIPMENT AND SUPPLIES

AUTHORIZED TOPCON DISTRIBUTOR

TP-L6 series pipe laser

Manufacturer documentation

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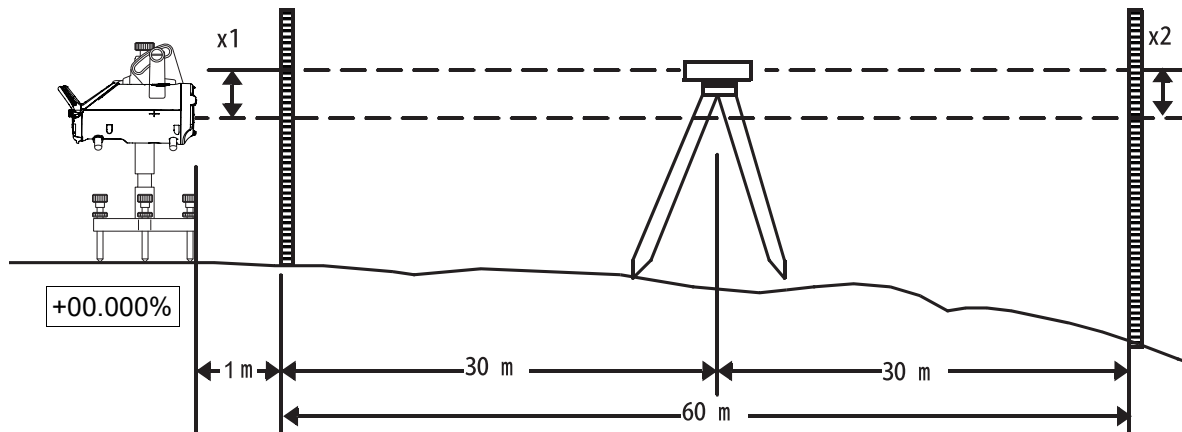
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9. CHECKS AND ADJUSTMENTS

9.1 Procedure To Check and Adjust Laser Calibration

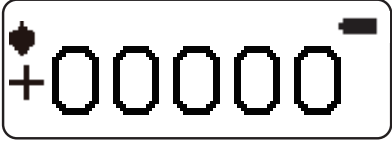


■ Checking Calibration

1. Make sure grade is set to 00.000% (0%).
2. Locate control points directly beneath the laser beam 1 m (3.3 ft) in front of the TP-L6W and 60 m (197ft.) from the first control point (see illustration above).
3. Set up a transit or level midway between the 1st and 2nd control points.
4. Take elevation readings at both control points using the laser beam and the transit or level.
If the distance between the readings at each point (x1 and x2) are the same, the unit does not need adjustment. If x1 and x2 are not the same, the unit requires adjustment as follows.

■ Adjusting Calibration

Procedure	Key operation	Display
1. When checking is finished, turn the power OFF.	 Power OFF	
2. Press Power ON key while pressing and holding the [Set/Lock] key. "0 SET" is displayed.	 + 	
3. Press [Set/Lock] key. "INIT" is displayed, and then "LEVELING" is displayed.		 ↓  ↓

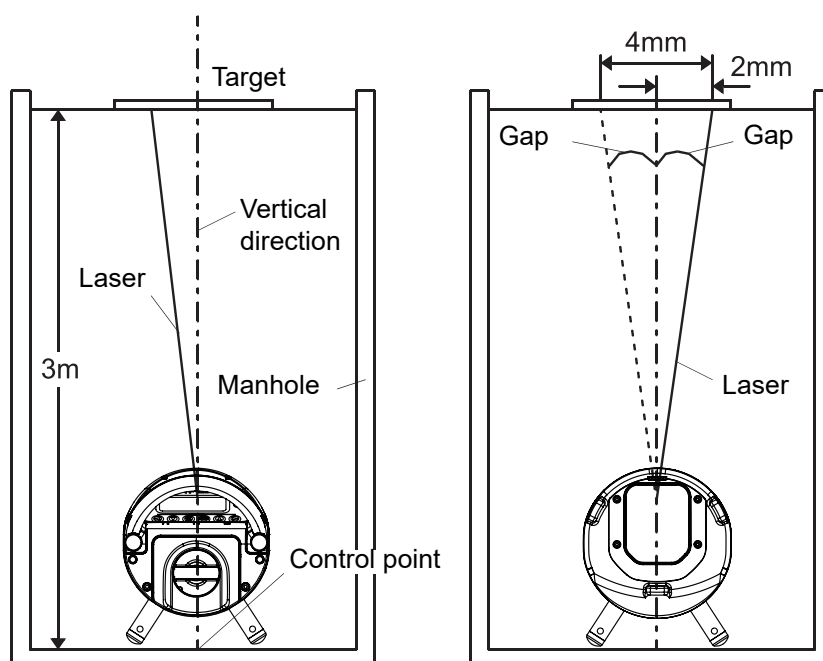
Procedure	Key operation	Display
4. Adjust the height of laser beam x1 and X2 measurements are equal (use [Down] or [Up] key).  The display will be changed to "LEVELING" again if the instrument is moved. In this case, wait until the display changes to "LEVEL" and readjust the instrument.	 or 	
5. Press [Set/Lock] key after completing the adjustment. "WAIT" is displayed.		 ↓ 
6. When +00000 appears on the display, press the [Set/Lock] key again. Repeat checking procedure above to confirm accurate calibration.		 ↓ 
 If the adjustment range is exceeded, "E72" (error) will be displayed in step 5. Repeat checking and adjusting procedure. In this case, carry out checking and adjusting again.		

9.2 Checking of Upper/Lower Laser (TP-L6WGV/WAV only)

1. Set up the instrument on a single control point using the lower laser.
2. Set up a target approximately 3m (10ft.) above the instrument.
3. Move the target above the manhole unit the upper laser is aligned to the center of the target.
4. Rotate the instrument 180° without changing lower laser line position.
If the upper laser emitting position does not change more than 4mm, the unit is within specification.



- If the unit is out by more than 4mm (0.014'), please contact your local dealer.





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