



Demo Kit (DK-LM150 Series) Components

	Models	Description
1	LM150KIQP	Precision laser sensor
2	SMBLML1	Mounting bracket
3	RSD1QP	Remote Sensor Display
4	Sensor Base	Multi-segment target and sensor mount
5	RSD Base	DIN rail mount for RSD

## Benefits

This demo will show the Analog and Discrete Window Teach functions of the LM Series, as well as RSD recipe control.

- Superior precision for real-world applications
  - Resolution 0.004mm
- Best in class Thermal & Mechanical stability
  - Temperature Effect +/- 0.008 mm/deg C
- Small housing design for the tightest spaces
  - 35.8 mm x 48.5 mm x 23.5 mm
- High response Speed for fast moving targets
  - As fast as 0.5 ms
- Simplified set up, control and replacement with optional Remote Sensor Display(RSD1)

## RSD1 Buttons

Use the RSD1 buttons Down, Up, Enter, and Escape to view or change RSD1 settings and information and to program a connected sensor.

### Down and Up Buttons



Press Down and Up to:

- Access the Quick Menu from Run mode
- Navigate the menu systems
- Change programming settings
- Change individual digit values in distance-based settings

### Enter Button



Press Enter to:

- Access the Sensor Menu from Run mode
- Access the submenus
- Move right one digit in distance based settings
- Save changes

### Escape Button



Press and hold Escape for 4 seconds to:

- Access the RSD1 Menu while in Run mode

Press Escape to:

- Leave the current menu and return to the parent menu

## Set Up and Demo

1. Connect RSD to LM Sensor
2. Connect RSD to Power
3. Follow Demo Instructions

### RSD Factory Default Restore

1. Click and hold  for >4 sec



2. Click  twice to locate the Reset menu



3. Click  to enter the Reset menu



4. Click  to locate Yes



5. Click  to select Yes



6. Click  to return to Run mode



### LM Factory Default Restore

1. Click 



2. Click  to locate the Reset menu



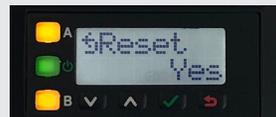
3. Click  to enter the Reset menu



4. Click  to locate Yes



5. Click  to select Yes



### Two-Point Teach (Analog)

1. Click  to access the Menu



3. Click  to start a two-point teach



2. Click  to access the Analog Menu



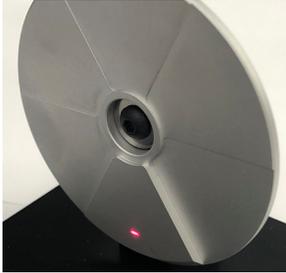
4. Position the Target Wheel so the LM150 laser is hitting the thinnest section



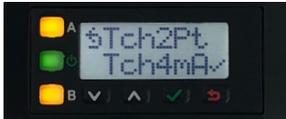
5. Click ✓ to teach the 4 mA distance



6. Position the Target Wheel so the LM150 laser is hitting the thickest section



7. Click ✓ to locate the 20 mA teach option



8. Click ✓ to teach the 20 mA distance



9. Click ↺ x 3 to return to Run Mode



10. Show the mA output change as you rotate the wheel



## Window Teach (Discrete)

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1. Click ✓ to access the Menu



2. Click ✓ to locate the Discrete Menu



3. Click ✓ to access the Discrete Menu



4. Click ✓ to locate TchMid



5. Click ✓ to enter the Teach Midpoint Menu



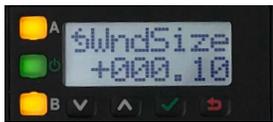
6. Click ✓ to enter Window Size Menu



## Window Teach (Discrete), continued

7. Click  to set the window to 0.1 mm

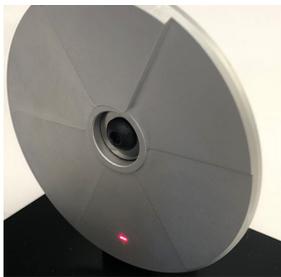
 moves cursor to the right  
increase and decrease the number you have selected



8. Click  to locate TchMdPt



9. Position the Target Wheel to the middle segment



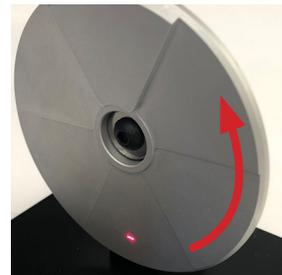
10. Click  to perform a mid-point teach



11. Click  x 3 to return to Run mode



12. Show the discrete output only turns on for the middle segment as you rotate the wheel



## Recipe Control

1. Click and hold  for >4 sec



2. Click  to enter Configuration #1 Menu



3. Click  to Import your configuration from the LM



4. Click  twice to return to Run mode

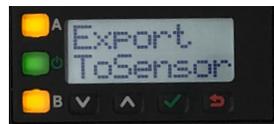


5. Reset LM to Factory Default

6. Rotate wheel and show discrete output no longer turns on only for middle segment

7. Repeat steps 1 and 2

8. Click  to Export your configuration from the RSD to the LM



9. Click  to locate yes (No is the default)



10. Click  to Export Config

11. Click  twice to return to run mode

12. Show how discrete output turns on only for middle segment