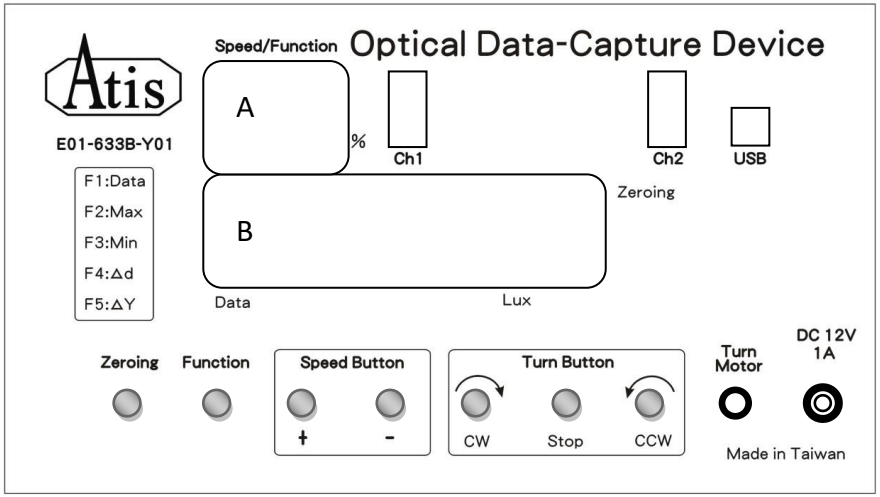
E01-633B-Y01
Optical Data-Capture Device



- Communication device：

1. Ch1：Connecting hole of sensor
2. Ch2：Connecting hole of photogate
3. USB：Connecting hole to personal computer
4. Turn Motor：Connecting hole to motor
5. DC12V/1A：Power input

- Function buttons and display：

6. Turn Button：Rotation direction of motor. Clockwise/Stop/Counter-clockwise
   Speed Button：Control the rotation speed of motor. Increase/Decrease (+/-). The value is displayed on screen A.

7. Function：Data selection，

Function	Screen A	Screen B	Explanation
1	F1	Reading values of sensor	The latest value
2	F2	Maximum value (max)	Compare values, only display the largest value
3	F3	Minimal value (min)	Compare values, only display the smallest value
4	F4	Difference (Δd)	The difference between the latest and the previous values
5	F5	Changing values (ΔY)	The value difference between the first and the latest values

8. Zeroing：Zero button. It is displayed on the left right corner of screen B. When the light is on, the retrieved data will become zero. When the light is off, the device will not retrieve data.

9. Screen A: Display the value of Speed/ Function. Two-digit seven-segment LED display

10. Screen B: Display the value of sensor. Six-digit seven-segment LED display

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- Attachment：

  1.Connecting wire *1

  2.Power supply 12DCV/1A *1。

- Additional selection：

  10-fence photogate, USB A-B *1, Motor device *1

- Light sensor ：

  1. Specification :

     Range 0~9999.99，Accuracy：0.01Lux，sample rate 10Hz；

     Range10000.0~50000.0，Accuracy：0.1Lux，sample rate 10Hz。

  2. Include metal support rod (length 6.7cm)

- Data Retrieve Method ：

1. When connecting the device to the power supply, use USB typA-A to connect the light sensor to Ch1. Users can then start retrieving data.
2. Retrieve data based on the shading of photogate: After step 1, connect the photogate to CH2. The display value updates every time when the photogate is shaded. To start retrieving data, press “ CW/ CCW” on the “Turn Button”. To stop retrieving data, press “Stop” on the “Turn Button”.
3. Measure values with displacement: (We suggest users to use a motor and 10-fence photogate with this measurement). After step 2, connect the device to a motor and a photogate. Please calculate the displacement based on actual radius.
4. When connecting USB typA-B to computer, use software LightMeter to output data to computer. Users can analyze data on their computers.

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