

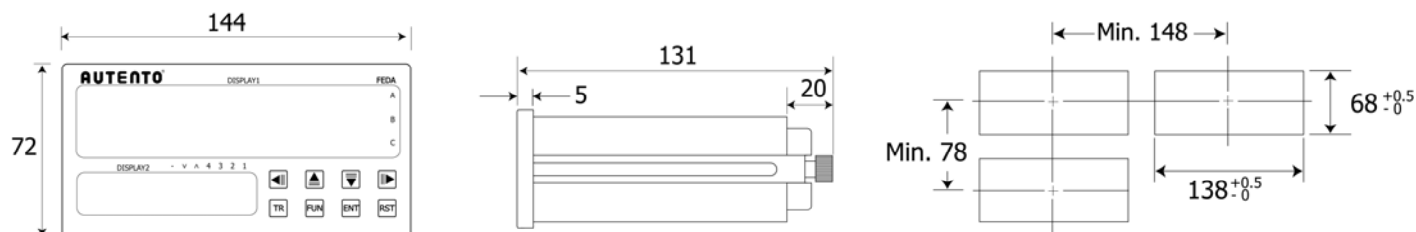


■ Specifications

| MODEL | ANDC-6160 | ANDC-6260 |
|-----------------------|--|-----------|
| Upper Display | 6 Digits | 6 Digits |
| Lower Display | 6 Digits | 6 Digits |
| Preset | 1 | 2 |
| Power | AC90~250V 50/60HZ 4VA | |
| Memory | EEPROM | |
| Input Signal | Contact Input: 15 CPS Non-Contact Input: 6K CPS 90° Quadrature : 3K CPS | |
| Excitation | 12VDC 30mA | |
| Housing Material | ABS Resin | |
| Decimal Point | 0~3, selectable via front panel | |
| VIBRATION | 0.7 mm double amplitude in X.Y.Z. directions respectively for 10 minutes. | |
| Insulation Resistance | 500VDC, 100M ohm between terminal connections & housing. | |
| Dielectric Strength | AC 1500V, 50/60 HZ for 1 minute between terminal connections & housing. | |
| Shock | mechanical durability :500m/sec in X.Y.Z. directions respectively for 3 times. | |
| Environmental | Temperature: -10 ~ +60°C, Humidity: 45 ~ 85% | |
| Dimension | Case :72(H)x144(W)x131(D), Cut-out: 69(H)x139(W)x127(D), | |
| Weight | About 750g | |

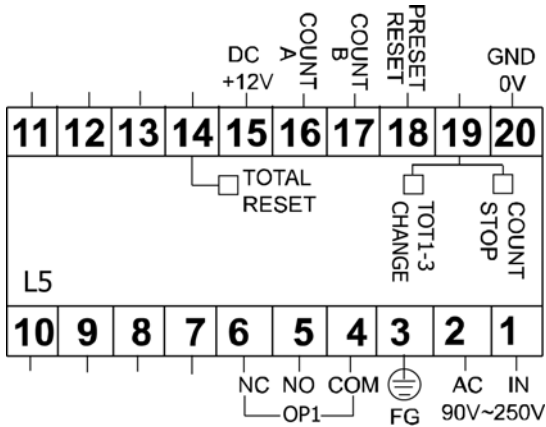
* For 2 preset counter model, the first preset value is **preset 2 minus preset 1**.

■ Dimensions (mm)



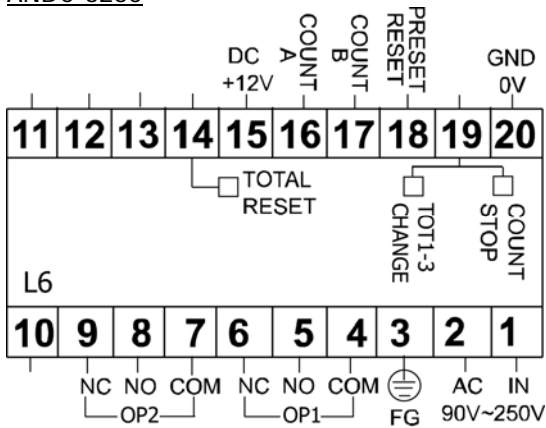
Terminal Diagram

ANDC-6160:



| Count Mode | Terminal |
|----------------|-------------|
| Add | 15、16、20 |
| Substract | 15、17、20 |
| 90° Quadrature | 15、16、17、20 |
| Relay Output | Terminal |
| Preset 1 | 4、5、6 |

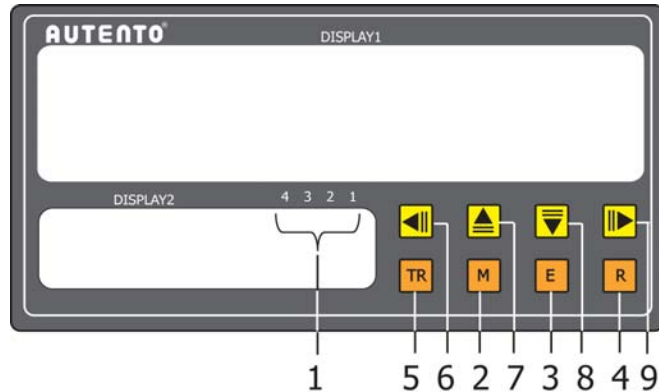
ANDC-6260



| Count Mode | Terminal |
|----------------|-------------|
| Add | 15、16、20 |
| Substract | 15、17、20 |
| 90° Quadrature | 15、16、17、20 |
| Relay Output | Terminal |
| Preset 1 | 4、5、6 |
| Preset 2 | 7、8、9 |

Note: The first preset value is **preset 2 minus preset 1**

■ Front Panel Identification



1. Preset Indicator Lamp
2. **M** - Function key: Used to scroll through the parameters
3. **E** - Enter Key: Confirm the changes
4. **R** - Reset Key
5. **TR** - Total Reset Key: Reset total counting value
6. **←** - Left Key: Used to shift through the digits from right to left
7. **▲** - Up Key: Used to set the required parameters
8. **▼** - Down Key: Used to set the required parameters
9. **→** - Right Key: Used to shift through the digits from left to right

■ Preset Value Setup

PRESET VALUE SETUP is used to change preset value. It can be accessed at any time by pressing **M**. Press **M** repeatedly to scroll through Preset 1 to 4 (Depend on model type). Once in PRESET SETUP MODE, press **←** or **→** to change the segment of digits and **▲** or **▼** to change the required preset value.

E has to be pressed to accept change.



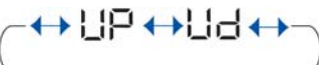



Note: the instrument will return to run mode automatically if there is no key activity for 75 second


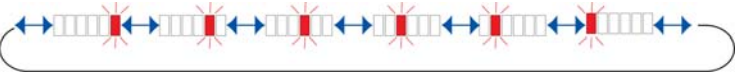

Note: For 2 preset counter model, the first preset value is **preset 2 minus preset 1**.

■ Configuration Mode Setup





To enter CONFIGURATION MODE SETUP, hold down **E** and press **M** under RUN MODE. Press **M** to scroll through the parameters. Then press **←** or **→** to shift through the digits and **▲** or **▼** to set the required value.

E has to be pressed to accept change and return to RUN MODE.

| Parameter | Description/Operation | Default |
|-----------|--|-------------|
| OP-t | <p>One shot output time (0.01 sec ~ 99.99 sec)</p>  | 1.00 Second |
| n.r.c.e. | <p>Output Mode: (Refer to Output Mode Setting Section)</p> <p>n: The counting value continue to increase or decrease until the reset signal is received r: After one-shot time of relay output, display value and preset value return to reset status. C: The display value and preset value return to reset status when it reaches preset value. E: After one-shot time of relay output, preset value return to reset status which display value continues to increase or decrease until reset signal is received.</p>  <p>Note: C Mode is not available for totalizing counter</p> | n |
| UP.Ud | <p>Up: Add or Subtract counting Ud: 90° Quadrature</p>  | Up |
| PUS | <p>90° Quadrature settings (This parameter setting only available when "Ud" is selected)</p>  | 1 : 1 |
| CPS | <p>Counting Speed</p>  | H |
| dP | <p>Decimal Place (0~3)</p>  | 0 |

| | | |
|-------|--|-------|
| PSC | Prescale function (0.002 ~ 9.999) * Refer to Prescale Function Section  | 1.000 |
| P-E | Startup counting value (0~999999)  | 0 |
| CF.CE | CF: Counting at the front edge CE: Counting at the rear edge  | CF |





Remote Reset Configuration

To enter REMOTE RESET CONFIGURATION hold down **E** and press **R** under RUN MODE. Press **M** to scroll through the parameters, then press  or  to shift through the digits and  or  to set the required value.

E has to be pressed to accept change and return to RUN MODE.

| Parameter | Description/Operation | Default |
|-----------|--|---------|
| RS | Current counting reset control on: Enable total reset function off: Disable total reset function | on |
| 0.-0 | Not Available | 0 |

Totalizing/Batch Mode Setup

To enter TOTALIZING/BATCH MODE SETUP hold down **E** and press **TR** under RUN MODE. Press **M** to scroll through the parameters, then press  or  to shift through the digits and  or  to set the required value.

E has to be pressed to accept change and return to RUN MODE.

| Parameter | Description/Operation | Default |
|-----------|--|---------|
| SH.CH | Display 1 SH: display batching counting CH: display total counting | SH |

| | | |
|-----|---|-----|
| SET | Display 2 St: display preset value rn: display current counting value | run |
| TRS | Total Reset control on: Enable total reset function off: Disable total reset function | on |

- The totalizing counter continues to count the accumulated value even though the present counting value is reset using **R** key.
- The total count can be reset using **TR** key. The present counting value still remains counting.
- The total count return to 0 and counts up again when it reaches 999999 (9999 for 4-digit counter)
- The batch counter return to 0 and counts up again when it reaches 999999 (9999 for 4-digit counter)
- The batch count can be reset using **TR** key. The present counting value will also return to reset status.

■ Key Lock Protection

Key Lock Protection prevents setting errors by prohibiting the use of Configuration Mode Setup. Only PRESET SETUP MODE is accessible when the key is locked. The lock indicator lamp (**located on lower right-hand-side of DISPLAY 1**) is lit while the key lock is set to on.

How to set Key Lock Protection:

Direction Key Model: Hold down **E** then press **←|||**.

How to Unlock Key Lock Protection:

Direction Key Model: Hold down **E** then press **←|||**.

■ Prescale Function

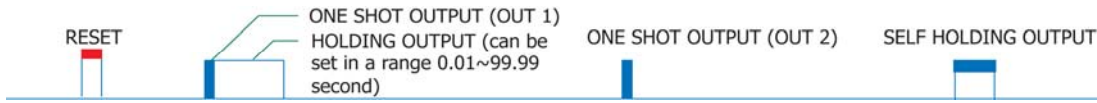
The counters receive the pulses are converted to the specified value via prescale function. This function is set to calculated the actual length or other measurement. The function is as follow:

$$\text{Prescale Value (PSC)} = \frac{\text{Pulley's Diameter(mm)} \times \pi}{\text{Pulse per 1 Revolution of Encoder(P/R)}}$$

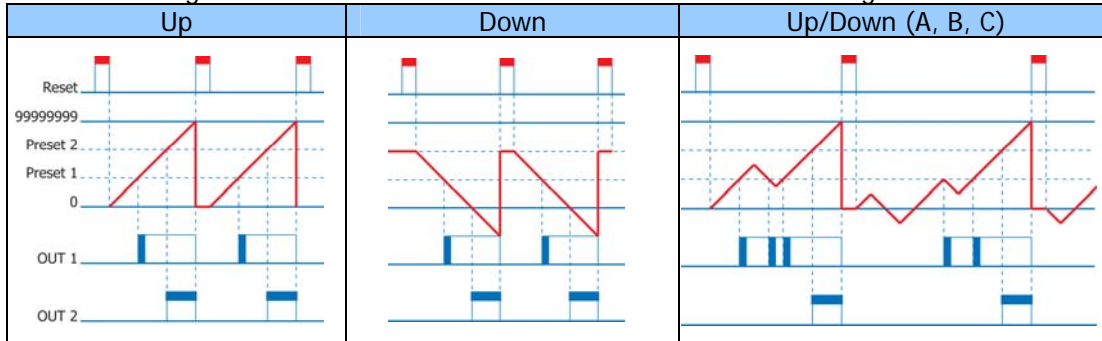
Example:

$$\text{PSC} = \frac{3.81 \text{ mm} \times 3.14159}{100} \approx 0.119$$

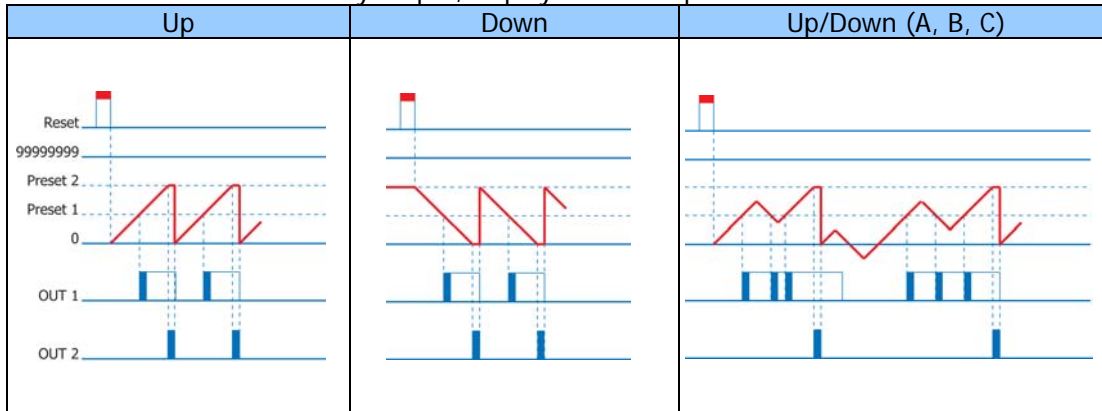
Output Mode Setup



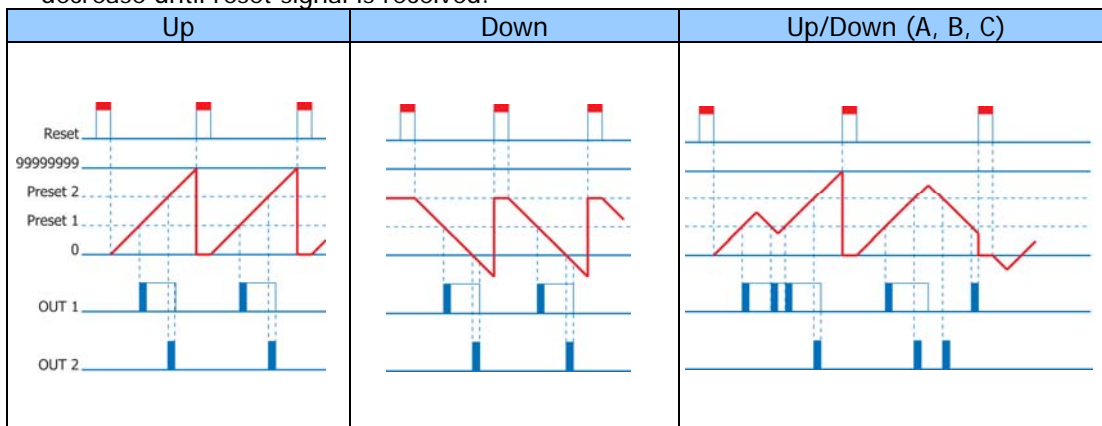
N: The counting value continue to increase or decrease until the reset signal is received



R: After one-shot time of relay output, display value and preset value return to reset status.



E: After one-shot time of relay output, preset value return to reset status which display value continues to increase or decrease until reset signal is received.



■ Safety Precaution

1. Disconnect power to the unit to eliminate the potential shock hazard when connecting terminal.
2. Observe proper polarity when connecting DC voltage. Do not apply reverse polarity of power.
3. Do not apply voltage/current exceeding the maximum allowable limit.
4. This unit should not be used outdoors.
5. Do not expose the unit under the extreme environment.
6. Do not disassemble and modify this unit.

■ Limited Warranty

AUTENTO Electronics Ind. Ltd. warrants that the medium on which the product will be free from defects in materials and workmanship under normal use and service for a period of **ONE YEAR**. The Company's and its suppliers' entire liability and Customer's exclusive remedy shall be, at the Company's option, either (a) return of the price paid for the product, or (b) repair or replacement of the product that does not meet this Limited Warranty and which is returned to the Company with a copy of Customer's receipt. This Limited Warranty is VOID if failure of the product has resulted from accident, abuse, or misapplication.