

# Цифровые измерители DDM

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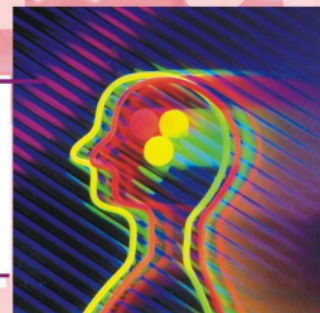
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# FOTEK

## Digital Meter

## 數位顯示表

### CE Rohs



- Economic digital meter / 經濟型數字表
  - Measuring range / 廣泛量測範圍
- Voltage : 0 ~ 600V / Current : 0 ~ 20A

- Easy to be mounted / 容易安裝使用
- Rate of multiple settable / 倍率可設定
- Zero point settable / 零點可設定

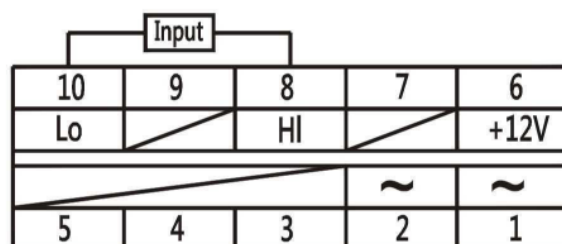
### ◆ Specification 型號規格【顯示型】 ◆ General data 共同規格

| Meter               | Outline   | Model      | Input Range              | Display Range |
|---------------------|-----------|------------|--------------------------|---------------|
| Digital scale meter | DIN 48x24 | ARM-14T    | 0~10VAC or 0~100VAC      | - 1999 ~ 9999 |
|                     |           | DRM-14T    | 0~10VDC or 0~100VDC      | - 1999 ~ 9999 |
|                     |           | DRM-14T-mV | 0~100mVDC                | - 1999 ~ 9999 |
|                     |           | DRM-14T-mA | 0~20mA VDC or 4~20mA VDC | - 1999 ~ 9999 |
|                     |           | DRM-14T-VR | Variable resistor        | - 1999 ~ 9999 |
|                     | DIN 72x72 | ARM-34T    | 0~10VAC or 0~100VAC      | - 1999 ~ 9999 |
|                     |           | DRM-34T    | 0~10VDC or 0~100VDC      | - 1999 ~ 9999 |
|                     |           | DRM-34T-mV | 0~100mVDC                | - 1999 ~ 9999 |
|                     |           | DRM-34T-mA | 0~20mA VDC or 4~20mA VDC | - 1999 ~ 9999 |
|                     |           | DRM-34T-VR | Variable resistor        | - 1999 ~ 9999 |
| Voltage meter       | DIN 48x24 | AV-14T     | 600vac                   | - 1999 ~ 9999 |
|                     |           | DV-14T     | 600vdc                   | - 1999 ~ 9999 |
|                     |           | DV-14T-mV  | 1.000vdc                 | - 1999 ~ 9999 |
|                     | DIN 72x72 | AV-34T     | 1000vac                  | - 1999 ~ 9999 |
|                     |           | DV-34T     | 1000vdc                  | - 1999 ~ 9999 |
|                     |           | DV-34T-mV  | 1.000vdc                 | - 1999 ~ 9999 |
| Current meter       | DIN 48x24 | AA-14T     | 0~5A VAC                 | - 1999 ~ 9999 |
|                     |           | DA-14T     | 0~5A VDC                 | - 1999 ~ 9999 |
|                     |           | DA-14T-mA  | 0~200mA VDC              | - 1999 ~ 9999 |
|                     | DIN 72x72 | AA-34T     | 0~20A VAC                | - 1999 ~ 9999 |
|                     |           | DA-34T     | 0~20A VDC                | - 1999 ~ 9999 |
|                     |           | DA-34T-mA  | 0~200mA VDC              | - 1999 ~ 9999 |

| Specification         | Data                                          |
|-----------------------|-----------------------------------------------|
| Power supply          | 90 ~ 250 Vac 50/60Hz or 24Vdc/ac or 48 Vdc/ac |
| Control output        | Non                                           |
| Accuracy              | ±0.1% of F.S.                                 |
| Response time         | 200ms                                         |
| Memory method         | EEPROM                                        |
| Insulation resistance | Over 500MΩ/500Vdc                             |
| Dielectric strength   | Over 2.5KV/1min.                              |

### ◆ Connection diagram / 接線圖

AV-14T/DV-14T/AA-14T/DA-14T/DRM-14T/ARM-14T



Power

90~265 VAC  
50/60 Hz

AV-34T/DV-34T/AA-34T/DA-34T/DRM-34T/ARM-34T



Input

Power

90~265 VAC  
50/60 Hz

## ◆ Specification 型號規格【設定型】

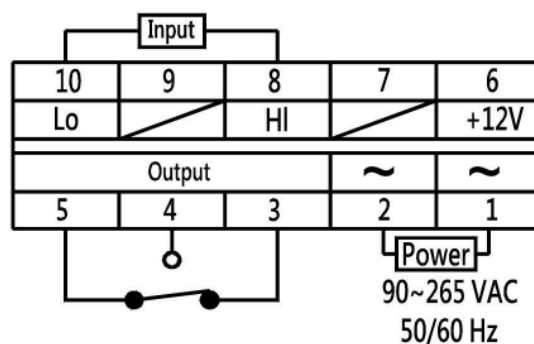
| Meter               | Outline   | Model      | Input Range              | Display Range |
|---------------------|-----------|------------|--------------------------|---------------|
| Digital scale meter | DIN 48x24 | ARM-141    | 0~10VAC or 0~100VAC      | - 1999 ~ 9999 |
|                     |           | DRM-141    | 0~10VDC or 0~100VDC      | - 1999 ~ 9999 |
|                     |           | DRM-141-mV | 0~100mVDC                | - 1999 ~ 9999 |
|                     |           | DRM-141-mA | 0~20mA VDC or 4~20mA VDC | - 1999 ~ 9999 |
|                     |           | DRM-141-VR | Variable resistor        | - 1999 ~ 9999 |
|                     | DIN 72x72 | ARM-341    | 0~10VAC or 0~100VAC      | - 1999 ~ 9999 |
|                     |           | DRM-341    | 0~10VDC or 0~100VDC      | - 1999 ~ 9999 |
|                     |           | DRM-341-mV | 0~100mVDC                | - 1999 ~ 9999 |
|                     |           | DRM-341-mA | 0~20mA VDC or 4~20mA VDC | - 1999 ~ 9999 |
|                     |           | DRM-341-VR | Variable resistor        | - 1999 ~ 9999 |
| Voltage meter       | DIN 48x24 | AV-141     | 600vac                   | - 1999 ~ 9999 |
|                     |           | DV-141     | 600vdc                   | - 1999 ~ 9999 |
|                     |           | DV-141-mV  | 1.000vdc                 | - 1999 ~ 9999 |
|                     | DIN 72x72 | AV-341     | 1000vac                  | - 1999 ~ 9999 |
|                     |           | DV-341     | 1000vdc                  | - 1999 ~ 9999 |
|                     |           | DV-341-mV  | 1.000vdc                 | - 1999 ~ 9999 |
| Current meter       | DIN 48x24 | AA-141     | 0~5A VAC                 | - 1999 ~ 9999 |
|                     |           | DA-141     | 0~5A VDC                 | - 1999 ~ 9999 |
|                     |           | DA-141-mA  | 0~200mA VDC              | - 1999 ~ 9999 |
|                     | DIN 72x72 | AA-341     | 0~20A VAC                | - 1999 ~ 9999 |
|                     |           | DA-341     | 0~20A VDC                | - 1999 ~ 9999 |
|                     |           | DA-341-mA  | 0~200mA VDC              | - 1999 ~ 9999 |

## ◆ General data 共同規格

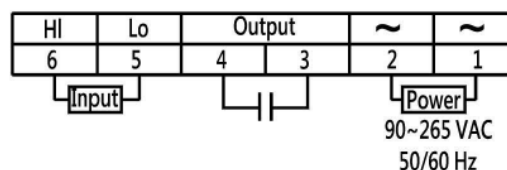
| Specification         | Data                                          |
|-----------------------|-----------------------------------------------|
| Power supply          | 90 ~ 250 Vac 50/60Hz or 24Vdc/ac or 48 Vdc/ac |
|                       | 4 digits                                      |
| Control output        | Relay 5A/250Vac                               |
| Accuracy              | ±0.1% of F.S.                                 |
| Response time         | 200ms                                         |
| Memory method         | EEPROM                                        |
| Insulation resistance | Over 500MΩ/500Vdc                             |
| Dielectric strength   | Over 2.5KV/1min.                              |

## ◆ Connection diagram / 接線圖

AV-141/DV-141/AA-141/DA-141/DRM-141/ARM-141



AV-341/DV-341/AA-341/DA-341/DRM-341/ARM-341



## ◆ Model guiding / 型號索引

**DRM - 141 - 50mV - 100.0 - 24V**

1 2 3 4 5

## ◆ Outline dimension / 外型尺寸

|                                                                                                                                        |                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <p>AV-14T/DV-14T/AA-14T/DA-14T/DRM-14T/ARM-14T<br/>AV-141/DV-141/AA-141/DA-141/DRM-141/ARM-141</p> <p>Fixed Hole : 44.5mm x 22.5mm</p> | <p>AV-34T/DV-34T/AA-34T/DA-34T/DRM-34T/ARM-34T<br/>AV-341/DV-341/AA-341/DA-341/DRM-341/ARM-341</p> <p>Fixed Hole : 65.5mm x 65.5mm</p> |
|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|



## ◆ Setting of parameter / 參數設定【Preset type / 設定型】

| Setting conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Parameter                                                                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>運轉狀態</div> <div>Running state</div> <div>Press <b>SET</b> + <b>F</b> key ↓ 3 sec</div> <div>鎖定設定</div> <div>Lock setting</div> <div>Press <b>SET</b></div> <div>警報模式選擇</div> <div>Alarm mode</div> <div>Press <b>SET</b></div> <div>小數點設定</div> <div>Dp setting</div> <div>Press <b>SET</b></div> <div>低點顯示值設定</div> <div>Low Value setting</div> <div>Press <b>SET</b></div> <div>高點顯示值設定</div> <div>High value setting</div> <div>Press <b>SET</b></div> <div>濾波速度設定</div> <div>Filter setting</div> <div>Press <b>SET</b></div> <div>動作延遲時間設定</div> <div>ON delay time setting</div> <div>Press <b>SET</b></div> <div>送電延遲時間</div> <div>Power ON delay time</div> <div>Press <b>SET</b></div> | <div>9999</div> <div>LK.10</div> <div>ALt.0</div> <div>dP.00</div> <div>0</div> <div>1800</div> <div>rLt.01</div> <div>t.0.00</div> <div>dt.05</div> | <div>1. Range : - 1999 ~ 9999</div> <div>1. 「LK.10」 : All settable<br/>2. 「LK.11」 : Alarm settable</div> <div>1. Range : ALt.0 ~ ALt.3</div> <div>1. Range : 0 ~ 3</div> <div>1. Range : -1999 ~ 999<br/>2. 1st digit flashing</div> <div>1. Range : 0 ~ 9999<br/>2. 4th digit flashing</div> <div>1. Range : 0 ~ 99</div> <div>1. Range : 0.00 ~ 9.99S<br/>2. Relay ON delay time</div> <div>1. Range : 0 ~ 99S</div> |

## ◆ Alarm setting / 警報值設定 : LK.10

| Setting conditions                                                                                                                                                                                                                                                                                                                                                                                                        | Parameter                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>運轉狀態</div> <div>Running state</div> <div>Press <b>SET</b> key ↓ 3 sec</div> <div>警報設定狀態</div> <div>Alarm setting status</div> <div>Press <b>SET</b> key ↓</div> <div>警報值設定</div> <div>Alarm setting</div> <div>Press <b>SET</b> key ↓</div> <div>應差值設定狀態</div> <div>Hysteresis setting status</div> <div>Press <b>SET</b> key ↓</div> <div>應差值設定</div> <div>Hysteresis setting</div> <div>Press <b>SET</b> key</div> | <div>9999</div> <div>SEt.1</div> <div>1000</div> <div>HYs.1</div> <div>1</div> | <div>1. 「ALt.0」 :<br/>PV ≥ SV → Relay ON / LED 1 ON ;<br/>PV &lt; (SV-HyS) → Relay OFF / LED 1 OFF</div> <div>2. 「ALt.1」 :<br/>PV ≤ SV → Relay ON / LED 1 ON ;<br/>PV &gt; (SV+HyS) → Relay OFF / LED 1 OFF</div> <div>3. 「ALt.2」 :<br/>(SV+HyS) ≥ PV ≥ (SV-HyS)<br/>→ Relay ON / LED 1 ON</div> <div>4. 「ALt.3」 :<br/>(SV+HyS) ≥ PV ≥ (SV-HyS)<br/>→ Relay OFF / LED 1 OFF</div> |

## ◆ Setting of parameter / 參數設定【Display type / 顯示型】

| Setting conditions                                               | Parameter    | Description                                     |
|------------------------------------------------------------------|--------------|-------------------------------------------------|
| 運轉狀態<br>Running state<br>Press <b>SET</b> + <b>F</b> key ↓ 3 sec | <b>9999</b>  | 1> Range : - 1999 ~ 9999                        |
| 鎖定設定<br>Setting of lock<br>Press <b>SET</b> ↓                    | <b>LK.10</b> | 1> 「LK.10」 : Settable<br>2>                     |
| 小數點設定<br>Setting of decimal point<br>Press <b>SET</b> ↓          | <b>dP.00</b> | 1> Range : 0 ~ 3                                |
| 低點顯示值設定<br>Setting of low display<br>Press <b>SET</b> ↓          | <b>0</b>     | 1> Range : -1999 ~ 999<br>2> 1st digit flashing |
| 高點顯示值設定<br>Setting of high display<br>Press <b>SET</b> ↓         | <b>1800</b>  | 1> Range : 0 ~ 9999<br>2> 4th digit flashing    |
| 濾波速度設定<br>Setting of filter<br>Press <b>SET</b>                  | <b>rL.01</b> | 1> Range : 0 ~ 99                               |

## ◆ Zero point setting / 零點設定 : LK.10

Please set **SET** & **▼** key both 「3sec」, the present input value will be transmitted into 「Zero point」, then the PV value is equal to "0". (LK. must to be set to 10)

同時按 **SET** & **▼** 鍵「3秒」，現在輸入值轉成「零點」顯示值即顯示「0」(LK. 須設成10)

Ex :

Input= (0~10Vdc) , Display vale= (0~ 1000) ; 「Low display」= 「L.000」 ,  
「High display」= 「1000」

When the present input is 5Vdc, If set **SET** & **▼** key both 「3sec」 ,  
then Input= (0~10Vdc) → Display value= (-500 ~ 500)

輸入 (0~10Vdc) , 顯示 (0~ 1000) ; 「低點」設「L.000」, 「高點」設「1000」

當輸入「5V」時，同時按 **SET** & **▼** 鍵「3秒」即可將 (0~10VDC) 轉換成 (-500 ~ 500)

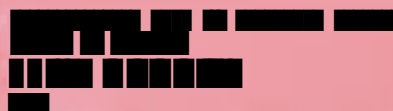
## ◆ Multiplier setting / 倍率設定 : LK.10

Please set **SET** & **▲** key both 「3sec」, To display the multiplier vale that can be changed by pressing the **F**、**▲** or **▼** key.

\* Setting range: 1~9999 \* PV = CV \* Multiplier value \* 「OuEr」 : PV>9999

同時按 **SET** & **▲** 鍵「3秒」，顯示倍率設定值【1】個位數閃爍，按 **F**、**▲** 或 **▼** 可改變設定值

\* 倍率設定範圍：1 ~ 9999 \* PV = CV x 「倍率設定值」 \* PV>9999時顯示「OuEr」



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