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# KTC series

## Battery type LCD Flow meter

## 電池型流量計

- Low battery detect
- Energy saving mode option
- Two meter with six kinds of unit
  - Flow rate meter : GPM → LPM → CMH (Range=0.0~999.9)
  - Flow total meter : GAL → LTR → CMH (Range=0~99,999,999)
- Flow total meter reset protection
- Display unit may be installed in four directions
- Data memory in the battery changed duration.
- Flow rate meter with alarm display



### Guiding of model / 型號索引

| KTC - 15 - TF - SDR - VI- DIN |                            |         |                                                                                                                                                                                                                                                |   |   |
|-------------------------------|----------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| 1                             | 2                          | 3       | 4                                                                                                                                                                                                                                              | 5 | 6 |
| 1                             | Series                     | 系列      | 「KTC」= Battery type LCD Flow meter                                                                                                                                                                                                             |   |   |
| 2                             | Pipe size                  | (管徑)    | 「08」=「DN08 ( 1/4" ) 」 / 「10」=「DN10 ( 3/8" ) 」 / 「15」=「DN15 ( 1/2" ) 」<br>「20」=「DN20 ( 3/4" ) 」 / 「25」=「DN25 ( 1" ) 」 / 「40」=「DN40 ( 1 1/2" ) 」<br>「50」=「DN50 ( 2" ) 」 / 「65」=「DN65 ( 2 1/2" ) 」<br>「80」=「DN80 ( 3" ) 」 / 「100」=「DN100 ( 4" ) 」 |   |   |
| 3                             | Material of Union          | (接管材質)  | 「PP」= PP / 「TF」= PVDF / 「PVC」= PVC / 「ST」= SUS 316                                                                                                                                                                                             |   |   |
| 4                             | Connection method          | (接管方式)  | 「non」= Standard union (標準由令式) / 「FNPT」= FNPT Crew threaded (管牙式)<br>「FG」= Flange (法蘭) / 「BSTF」= BSTF union (內牙式)<br>「BU」= Butt welding (焊接式) / 「SDR」= SDR-11 union (插管式)                                                                       |   |   |
| 5                             | Seal material              | (密封墊材質) | 「VI」= VITON / 「non」= EPDM                                                                                                                                                                                                                      |   |   |
| 6                             | Pipe standard              | (管徑標準)  | 「DIN」= DIN standard    「JIS」= JIS standard    「ANSI」= ANSI standard                                                                                                                                                                            |   |   |
| KIC - TF - S                  |                            |         |                                                                                                                                                                                                                                                |   |   |
| 1                             | 2                          | 3       |                                                                                                                                                                                                                                                |   |   |
| 1                             | Series                     |         | 「KIC」= Battery type flow meter 電池式瞬間流量計                                                                                                                                                                                                        |   |   |
| 2                             | Material of Inserting tube |         | 「PVC」= PVC    「PP」= PP    「TF」= PVDF                                                                                                                                                                                                           |   |   |
| 3                             | Length of Inserting tube   |         | 「S」= for pipe ( 1" ~ 4" )    「L」= for pipe ( 6" ~ 24" )                                                                                                                                                                                        |   |   |



KTC



KIC



### General data / 共同規格

| Specification     | 規格   | Description                                              |
|-------------------|------|----------------------------------------------------------|
| Fluid             | 量測流體 | Water or Chemical fluid                                  |
| Accuracy          | 量測精度 | ± 0.5% of F.S. @ 25°C                                    |
| Flow velocity     | 最大流速 | 10 m / s max.                                            |
| Low cut           | 最小流速 | 0.3 m / s min.                                           |
| Operating press.  | 工作壓力 | 5 kg / cm <sup>2</sup>                                   |
| Range ability     | 接管範圍 | 10 : 1                                                   |
| Response time     | 反應時間 | Real time                                                |
| Material          | 材質   | Paddle : Tefzel ; Body : PP or PVC or TF or SUS 316      |
| Operating temp.   | 工作溫度 | 「PVC」 < 50°C / 「PP」 < 80°C / 「PF」 < 100°C / 「ST」 < 120°C |
| Operating circum. | 工作環境 | -20°C ~ +80°C ; 35% ~ 85% RH                             |

### Specification / 規格

| Product           | 產品    | Battery type LCD Flow meter                                                       |
|-------------------|-------|-----------------------------------------------------------------------------------|
| Flow total mete   | 累積流量計 | Range= 0-99,999,999<br>Unit = Gallon or Liter or KL ( m <sup>3</sup> ) selectable |
| Flow rate meter   | 瞬間流量計 | Range= 0.0-999.9<br>Unit = GPM or LPM or CMH selectable                           |
| Operating voltage | 工作電壓  | 3.0V                                                                              |
| Battery           | 電池    | Lithium battery ( CR2477T )                                                       |
| Life of battery   | 電池壽命  | Over 1 year                                                                       |
| Protection class  | 保護等級  | IP-66                                                                             |
| Operating temp    | 使用環境  | - 20°C ~ +80°C ; 35 ~ 85%RH                                                       |
| Housing material  | 外殼材質  | ABS intesive ( UL-94V0 )                                                          |
| Approval          | 認證    | CE Rohs                                                                           |

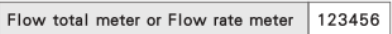
### Energy saving mode option (省電模式設定)

※ 「dSP-Eco」 : The back light LED can be not turned on any time, after pressing the power key or F key to enter the 「Running status」 30 seconds, it will enter the 「Sleep status」 .  
( 省電模式 : 背光 LED 都不會亮, 按電源鍵或 F 鍵啟動運轉後 30 秒後會自動進入休眠狀態 )

※ 「dSP-non」 : Press any key to turn on the back light LED on light time duration, it will stay in the 「Running status」 continually..  
( 一般模式 : 按任何鍵時背光 LED 會亮 T-6 時間, 將持續在運轉狀態 )

※ Note : Please select 「dSP-non」 to keep 「Flow total meter」 working. ( 選擇 「dSP-non」 才能讓 「累計流量計」 持續工作 )

## ● Function Setting / 功能設定

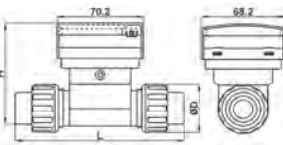
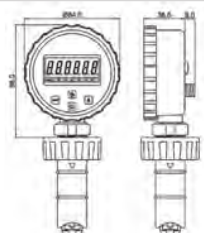
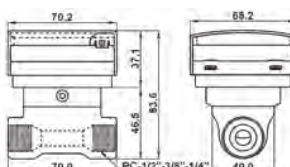
| Setting conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Range                                                                                                               | Description / 說明                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  123456<br>Press <b>SET</b> & <b>F</b> key 3 sec<br>Lock setting / 鎖住設定 Lock.0<br>Press <b>SET</b> key<br>K factor setting / 流量系數設定 K9999.9<br>Press <b>SET</b> key<br>Display mode / 省電模式設定 dSP.Eco<br>Press <b>SET</b> key<br>Light time setting / 背光時間設定 t - 6<br>Press <b>SET</b> key<br>Alarm delay setting / 警報延遲設定 dt- 10<br>Press <b>SET</b> key<br>Reset method / 復歸模式選擇 RESET.0<br>Press <b>SET</b> key | 0~999999<br>or<br>0.1~9999.9<br><br>0.1<br><br>0.1~9999.9<br><br>Eco-non<br><br>0.1~9999<br><br>0.1~9999<br><br>0.1 | 1> Running status<br>2> Flow total meter (累積流量計) : Displays 「xxxxxx」 (顯示「xxxxxx」)<br>3> Flow rate meter (瞬間流量計) : Displays 「r xxxx.x」 (顯示「r xxxx.x」)<br><br>1> 「Lck .0」 = Un-lock (可設定)<br>2> 「Lck .1」 = Lock (鎖住)<br><br>1> Flow meter = Input pulses x 「1 / k」 (LPM) (瞬間流量計=輸入訊號 x 「1 / k」 (LPM)<br><br>1-1. 「dSP-Eco」 = The back light LED can be not turned on any time, after pressing the power key to enter the 「Running status」 30 seconds, it will enter the 「Sleep status」 .<br>(省電模式=背光 LED 都不會亮, 按電源鍵啟動運轉 30 秒後會自動進入休眠狀態)<br>1-2. 「dSP-non」 = Press any key to turn on the back light LED on light time duration, it will stay in the 「Running status」 continually..<br>(一般模式=按任何鍵時背光 LED 就會亮 T-6 時間持續, 將持續在運轉狀態)<br><br>1> 「T- 6」 = In 「dSP-non」, Press any key to turn on the back light LED 6 seconds.<br>(「T- 6」 = 一般模式按任何鍵時背光LED就會亮6秒)<br>1> 「dt.10」 = Alarm ON delay 10 seconds (警報延遲10秒動作)<br>Flow rate meter (瞬間流量計) : (r xxxx.x) < (Lnnn.n) or (r xxxx.x) > (Hyyyy.y)<br>Delay 10 seconds to exchange display of flow rate value & alarm value.<br>1> 「RESET.0」 = Flow total meter reset unable. (無法清除累積流量計)<br>2> 「RESET.1」 = Flow total meter reset enable. (可清除累積流量計) |

## ● How to set function / 如何設定功能

- Two meter with three kinds of unit : 「Lock-0」 (按「**SET**」鍵3秒後再按「**▲**」或「**▼**」鍵可切換2種流量計3種單位)
  - After pressing 「**SET**」 key 3 seconds, to press 「**▲**」 or 「**▼**」 to select GPM→LPM→TPM→GAL→LTR→TON→GPM→...
  - 「GPM→LPM→TPM」 : Displays 「r xxxx.x」
  - 「GAL→LTR→TON」 : Displays 「xxxxxx」
- How to display the current value of Flow total meter (如何監看累積流量計) : Range 0 ~99,999,999
  - Press the 「**▲**」 key 3 seconds to show current value of the 7th ~ 8th digit. (按「**▲**」鍵3秒後顯示第7-8位的數值)
  - After releasing the 「**▲**」 key to show current value of the 1ST ~ 6th digit. (放開「**▲**」鍵後顯示第1-6位的數值)
- How to set the alarm limit of Flow rate meter (如何設定瞬間流量計的警報值) :
  - Press the 「**SET**」 & 「**▲**」 keys 3 seconds to display High alarm limit setting value 「H yyyy.y」  
(按「**SET**」 & 「**▲**」鍵3秒可設定上限警報值)
  - After finishing the High alarm limit setting, Press the 「**SET**」 key to display Low alarm limit setting value 「L nnnn.n」  
(完成上限警報值設定後按「**SET**」鍵可設定下限警報值)
  - Set 「H 0.0」 to close the alarm function (「H yyyy.y」如果設H 0.0即無警報功能!)
  - In alarm status ((r xxxx.x) < (L nnnn.n) or (r xxxx.x) > (H yyyy.y)) : 「r. xxxx.x」 & 「L nnnn.n」 or 「H yyyy.y」 exchange display  
(瞬間流量超出上下限警報值後會延遲dt時間後「r. xxxx.x」和「L nnnn.n」 or 「H yyyy.y」交替顯示)
- Flow total meter reset protection (防止累積流量計被清除)
  - To protect flow total meter from reset by set 「RESET.0」 (「RESET.0」可防止累積流量計被清除)
  - To reset flow total meter : 「RESET.1」 Press **▲** & **▼** keys 3 seconds to reset Flow total meter  
(「RESET.1」按 **▲** & **▼** 鍵3秒可清除累積流量計)
- Low battery detect (電池電量偵測) : Pilot BAT will be flickered at voltage of battery below 2.8V (電池電壓低於2.8V開始閃爍)

| Voltage of battery (電池電壓) | Symbol of battery (電池電量符號)                                                          | Status (電池電量狀態)               |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------|
| 3.0V                      |  | Full scale (電池滿電量)            |
| < 3.0V                    |  | Mild scale (電池半滿電量)           |
| < 2.8V                    |  | Low scale (flickered) (電池低電量) |

## ● Dimension / 外形圖

| Standard plastic union type                                                        |      |     |       |     | SUS-316 type                                                                                                                                                                  |                                                                                                                                             | Inserted type                                                                         |
|------------------------------------------------------------------------------------|------|-----|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | DN   | H   | L     | Φ D | DN08/ DN10/ DN15                                                                                                                                                              | DN20 / DN25 / DN40 / DN50                                                                                                                   |  |
|                                                                                    | DN15 | 84  | 140   | 41  |  | 1> They are available to accept your order to manufacture.<br>可接受訂單製造生產。<br><br>2> Connection method may adopt your demands.<br>接管方式可依需求訂製。 |                                                                                       |
|                                                                                    | DN20 | 88  | 150   | 53  |                                                                                                                                                                               |                                                                                                                                             |                                                                                       |
|                                                                                    | DN25 | 91  | 160   | 60  |                                                                                                                                                                               |                                                                                                                                             |                                                                                       |
|                                                                                    | DN40 | 106 | 185   | 83  |                                                                                                                                                                               |                                                                                                                                             |                                                                                       |
|                                                                                    | DN50 | 120 | 196.8 | 110 |                                                                                                                                                                               |                                                                                                                                             |                                                                                       |

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