

DCbox 類比輸入控制錶

MA5



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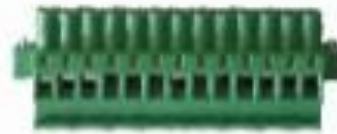


特點

- 高精度:±0.1%F.S.
- 內建穩定24V輔助電源(搭配LP PYRA03AC),穩定性高,抗雜訊干擾
- 可從程式設定保持或歸零
- 尺寸:96(長)*48(寬)*95 (深)mm,字體0.8"LED高亮度
- 歐式端子, 安全, 安裝容易
- 更簡便的操作設定

短尺寸:

含端子深度95mm

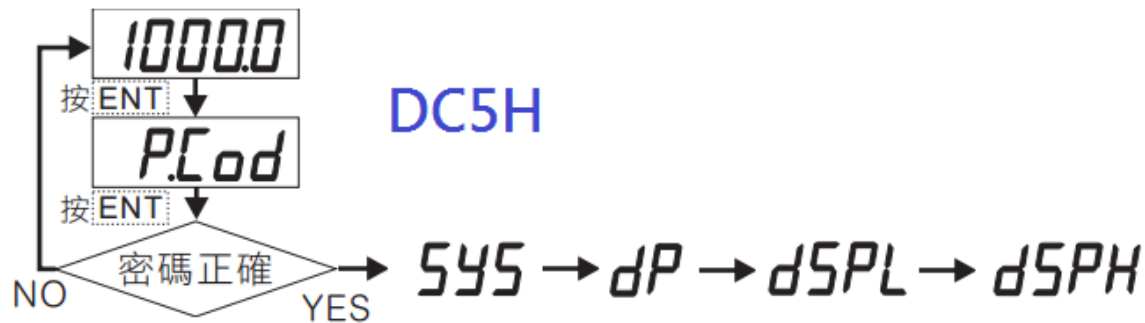


DCbox

優點一

與舊版DC5H-A的操作設定差異

dp(小數點)、DSPL(顯示低值)、DSPH(顯示高值) 設定位置改變




移動至上鍵長按3s的設定層

MA5 按()3秒 → **dp → dSPL → dSPH**



優點二

DC5H-A,如果LP03 信號衰減導致數值偏差,
錶頭必須與衰減的LP03重新校正、或使用d.zero&d.span 來補償,
需反覆換算測試,過程繁瑣而MA5是利用程式裡面的參數do.FSt(顯示值偏差設定) d.Gain(顯示值係數設定)來補償顯示值。
而do.FSt及do.Gain都在上鍵3秒的顯示設定層裡面

MA5 按()3秒 → dP → d5PL → d5PH
→ doFSt → dGA in

Ex:

實際值應為860,錶頭顯示值為650,則設定do.FSt為+210,使顯示值為860



DCbox

LP PYRA03

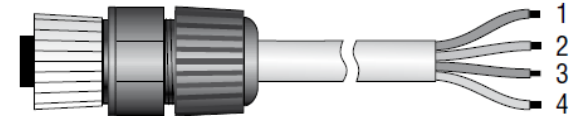
Technical Specification	LP PYRA 02 / LP PYRA 12*	LP PYRA 03
Typical sensitivity	10 $\mu\text{V}/(\text{W}/\text{m}^2)$	
Impedance	33 $\Omega \div 45 \Omega$	
Measuring range	0 \div 2000 W/m^2	
Viewing field	2 π sr	
Spectral field	305 nm \div 2800 nm W/m^2 (50%)	
Operating temperature	-40 $^\circ\text{C} \div 80 \text{ }^\circ\text{C}$	
Weight	0.90 Kg	0.45 Kg
ISO 9060 Specifications		
Response time 95%	< 28 sec	< 30sec
Zero Off-set		
a) Response to thermal radiation (200 W/m^2)	15 W/m^2	25 W/m^2
b) Response to temperature change 5K/h	< \pm 4 W/m^2	< \pm 6 W/m^2
3a) Non stability over 1 year	< \pm 1.51%	< \pm 2.51%
3b) Non linearity	< \pm 11%	< \pm 21%
3c) Cosine response	< \pm 18 W/m^2	< \pm 22 W/m^2
3d) Spectral selectivity	< \pm 51%	< \pm 71%
3e) Response with regard to temperature	< 4 %	< 8 %
3f) Tilt response	< \pm 21%	< \pm 41%
Shadow ring for LP PYRA 12		
Weight	5.90 Kg	
Diameter	570 mm	
Height	54 mm	
Basis diameter	300 mm	



WIRING DIAGRAM LP PYRA 02 - LP PYRA 03 - LP PYRA 12



Fixed 4-pole plug M12



Flying 4-pole M12 socket

LP PYRA 02 - LP PYRA 03 - LP PYRA 12

Connector	Function	Color
1	Positive signal (+)	Red
2	Negative signal (-)	Blue
3	Not connected (LP PYRA 03) Container (LP PYRA 02 - LP PYRA 12)	White
4	Shield (\pm)	Black

DCbox

LP PYRA03 顯示設定

LP PYRA03 顯示設定

$$I(w \cdot m^2) = \frac{E}{S} \begin{array}{l} \text{Sensor output(mV)} \\ \text{Sensitivity } (\mu v/w \cdot m^2) \end{array}$$

Ex.

LP03 Sensitivity: $16.08 \mu V (kW/m^2)$

Dsph: 4000(概值)



Sensitivity	DSPH
11 μV	4545
12 μV	4167
13 μV	3846
14 μV	3571
15 μV	3333
16 μV	3125
17 μV	2941
18 μV	2778

如顯示有誤差,請將DSPH設定為

InHi : DSPH = $0.01608 mV : 1$

50 mV : DSPH = $0.01608 mV : 1$

DSPH = $50 / 0.01608 = 3109$

50 mV為錶頭出廠設定的最大輸入信號

LP PYRA03



錶頭與日照計需搭配使用
能更為準確
如搭配錯誤 會有誤差值

Q & A

