

# DVP04DA-S DVP04DA-S2

## Instruction Sheet 安裝說明 安裝說明

### Analog Output Module

類比輸出模組  
模擬輸出模塊

2018-01-18  
501671107-DA42



Smarter. Greener. Together.

### Warning

ENGLISH

EN **✓** DVP04DA-S/DVP04DA-S2 is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent damage to the internal staff from static electricity, DVP04DA-S/DVP04DA-S2, or power module must be grounded to prevent damage to DVP04DA-S/DVP04DA-S2. The control cabinet which DVP04DA-S/DVP04DA-S2 is installed should be equipped with a safeguard. For example, the control cabinet in which DVP04DA-S/DVP04DA-S2 is installed can be unlocked with a special tool or key.

EN **✓** DO NOT connect AC power to any I/O terminals, otherwise serious damage may occur. Please check all wiring again before connecting the power supply module. After DVP04DA-S/DVP04DA-S2 is disconnected, DO NOT touch any terminals in a module. Make sure the power supply module is disconnected before touching any terminals in a module.

FR **✓** DVP04DA-S/DVP04DA-S2 est un appareil à type ouvert. Il doit être installé dans un armoire de commande sans poussière, humidité, choc et vibration. Pour éviter les dommages causés par la statique, il faut connecter l'appareil à la terre pour empêcher tout dommage à l'intérieur de l'appareil. Par exemple, l'armoire de commande dans laquelle l'appareil est installé peut être déverrouillée avec une clé spéciale.

FR **✓** Ne pas appliquer la tension secteur sur les bornes d'entrée/Sorties, ou l'appareil DVP04DA-S/DVP04DA-S2 pourra être endommagé. Merci de vérifier encore une fois que le câblage avale la mise sous tension du DVP04DA-S/DVP04DA-S2. Lors de la déconnection de l'appareil, ne pas toucher les bornes d'entrée/Sorties. Veuillez laisser le temps et bien relâcher au connecteur de terre (après avoir tiré toute interférence électromagnétique).

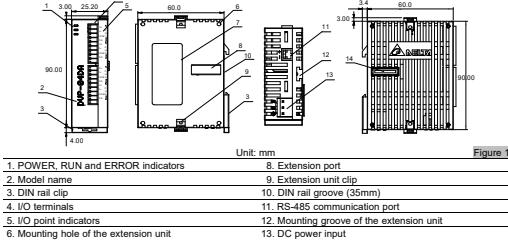
## ● Introduction

### Model Explanation & Peripherals

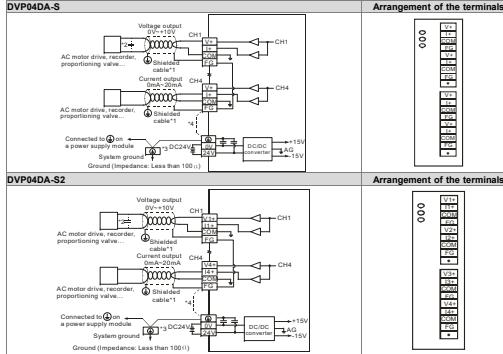
This series of modules is designed for PLC. A D/A conversion type PLC can read data from DVP04DA-S/DVP04DA-S2 or write data to DVP04DA-S/DVP04DA-S2 by means of the built-in FOMTO. The analog output module receives four pieces of 12-bit digital data from a PLC, and converts the digital data into 4-point analog signal output (voltage or current). There are 49 CRs (control registers) in the module, and each register has 16 bits.

Users can select output from voltage or current wiring. Voltage output range is 0V ~ +10VDC (resolution is 2.5mV). Current output range is 0mA ~ 20mA (resolution is 5μA).

### ● Product Profile & Outline



### ● External Wiring



Note 1: Please isolate the analog output cable from other power cables.  
Note 2: If noise interferes with the wiring, and makes the ripple voltage of the input terminal of the load connected high, please connect a 0.1~0.2 μF and 25 V capacitor.

Note 3: Please connect ④ to the system ground or connect the system ground to a distribution box.

Note 4: If there is much noise, please connect the terminal FG to the ground terminal.

④ Use cables with the same length (less than 200 m) and wire resistance of less than 100 ohm.

Warning: DO NOT wire to the empty terminal. ●

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④ Use cables with the same length (less than 200 m) and wire

## ■ 其他規格

| 電源規格   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| 額定最大耗功率  |  |  |  |  |  |  |
| 直流 24VDC ( 20.4VDC ~ 28.8VDC ) (-15% ~ +20%) · 4W · 由外部電源供應 ·                      |  |  |  |  |  |  |
| 環境規格   |  |  |  |  |  |  |
| 操作/儲存環境  |  |  |  |  |  |  |
| 操作: -0°C ~ 55°C (溫度) · 5 ~ 95% 濕度 · 汚染等級 2<br>儲存: -25°C ~ 70°C (溫度) · 5 ~ 95% (濕度) |  |  |  |  |  |  |
| 國際標準規範 IEC 61131-2 · IEC 68-2-6 (TEST Fc) / IEC 61131-2 & IEC 68-2-27 (TEST Ea)    |  |  |  |  |  |  |

## ③ 控制暫存器 CR (Control Register)

| CR       | RS-485 | 編碼 | 參數地  | 保持型 | 暫存器名稱   | b15~b12  |
|----------|--------|----|------|-----|---|--|
| #0 H4032 | o      | R  | 機種型號 |     | b15~b14 b13 b12 b11 b10 b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 | 系統內定。選項元件之位元 (b7 ~ b0) - DVP04DA-S 機種編碼=H89 · DVP04DA-S CR#32 機種編碼=H91 · 使用者可在程式中將此機種型號讀出，以判斷擴充機種是否存在。 |

保留 · CH4 · CH3 · CH2 · CH1  
輸出模式設定：出廠設定值為 H0000 · 模式 0：電壓輸出模式 (0V ~ 10V)  
模式 1：電壓輸出模式 (2V ~ 10V)  
模式 2：電流輸出模式 (4mA ~ 20mA)  
模式 3：電流輸出模式 (0mA ~ 20mA)

ex: 設定 RTU (檢查碼高低位交換) 8,N,1,通訊速率為 57600 bps，則對 CR32 寫入 HC310 · 註 \*1. 僅支援 ASCII 模式

CR#1 內容僅用來設定機種位元: 位元輸出模式內部兩個端子的工作模式，每一個通道有四種模式，可獨立設定。例如要將 CH1 ~ CH4 分別輸出設定為 CH1: 模式 2 (b2=0b10) · CH2: 模式 1 (b5=0b01) · CH3: 模式 0 (b8=0b00) · CH4: 模式 0 (b11~b0=0b00) 時，須將 CR#1 設為 H000A · 較高位的 (b12 ~ b15) 將保留，出廠設定值為 H0000 ·

#0 H4038 × R/W CH1 檢查碼數值  
#7 H4039 × R/W CH2 檢查碼數值  
#8 H403A × R/W CH3 檢查碼數值  
#9 H403B × R/W CH4 檢查碼數值

#18 H4044 × R/W CH1 檢查碼 OFFSET 設定  
#19 H4045 × R/W CH2 檢查碼 OFFSET 設定  
#20 H4046 × R/W CH3 檢查碼 OFFSET 設定  
#21 H4047 × R/W CH4 檢查碼 OFFSET 設定  
#22 H4044A × R/W CH1 檢查碼 GAIN 值  
#25 H4048 × R/W CH2 檢查碼 GAIN 值  
#26 H4049C × R/W CH3 檢查碼 GAIN 值  
#27 H4049D × R/W CH4 檢查碼 GAIN 值

CR#18 ~ CR#27: 特別注意 GAIN 值 -400ms ~ +6000ms (電壓或電流) · 當此值較小時 (急斜線)，對於輸出信號之分辨率較小；當此值較大時 (緩線)，對於輸出信號之分辨率較大。數位值變化較小時，數位值會變動較大。

#0 H4050 × R/X 機種錯誤 · 儲存所有錯誤狀態的資料存取器 · 詳細內容請參照錯誤訊息表。

CR#33: 錯誤狀態 · 儲存所有錯誤狀態的資料存取器 · 詳細內容請參照錯誤訊息表。

錯誤狀態  
b15 ~ b8  
b7  
b6  
b5  
b4  
b3  
b2  
b1  
b0  
電壓常量 K1 (H1) · 0 0 0 0 0 0 0 1  
電流常量 K2 (H2) · 0 0 0 0 0 0 1 0  
模擬量轉換器故障 K4 (H4) · 0 0 0 0 0 0 1 0  
Q/D 轉換器故障 K9 (H9) · 0 0 0 0 0 0 0 0  
緩體故障 K16 (H10) · 0 0 0 0 1 0 0 0  
振動傳感器 K32 (H20) · 0 0 0 1 0 0 0 0  
平均次數設定錯誤 K64 (H40) · 0 1 0 0 0 0 0 0  
指令錯誤 K128 (H80) · 1 0 0 0 0 0 0 0

\* DVP04DA-S CR#32 通訊格式設定說明：前板版本 V4.14 (含) 以下，不開放資料格式 (b11~b8) 選擇，ASCII 固定為 7, E, 1 格式 (代碼 H'00xx) · RTU 固定為 8, E, 1 格式 (代碼 H'C0xx/H'80xx) · 初版版本為 V4.15 (含) 以上，請參考下表設定 · 并請注意原先設定代碼 H'C0xx/H'80xx 被使用於新通訊格式時，模組將自動設為 RTU, E, 1。

|                     | b15 ~ b12 | b11 ~ b8       | b7 ~ b0      |
|---------------------|-----------|----------------|--------------|
| ASCII/RTU 及檢查碼高低位交換 | 資料格式      | 通訊速率           | 說明           |
| H0                  | ASCII     | 7,E,1*         | H01 4800 bps |
| H8                  | RTU       | 8,E,1          | H02 9600 bps |
| H/C                 | 檢查碼高低位交換  | H03 38400 bps  |              |
|                     |           | H04 57600 bps  |              |
|                     |           | H05 115200 bps |              |

ex: 欲設定 RTU (檢查碼高低位交換) 8,N,1,通訊速率為 57600 bps，則對 CR#32 寫入 HC310 · 註 \*1. 僅支援 ASCII 模式

## ④ 調整 D/A 轉換特性曲線

電壓輸出模式：



CR#1 之模式 0: GAIN = 5V (2,000sb) · OFFSET = 0V (0sb) ·

CR#1 之模式 1: GAIN = 6V (2,400sb) · OFFSET = 2V (800sb) ·

GAIN: 當數位輸入值為 K2,000 時的電壓輸出值 · 設定範圍: 0sb ~ +4,000sb ·

OFFSET: 當數位輸入值為 KO 時的電壓輸出值 · 設定範圍: -2,000sb ~ +2,000sb ·

GAIN - OFFSET: 篩量須在 +400sb ~ +6,000sb 之間 ·

電流輸出模式：



CR#1 之模式 2: GAIN = 12mA (2,400sb) · OFFSET = 4mA (800sb) ·

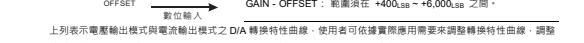
CR#1 之模式 3: GAIN = 10mA (2,000sb) · OFFSET = 0mA (0sb) ·

GAIN: 當數位輸入值為 K2,000 時的電流輸出值 · 設定範圍: 0sb ~ +4,000sb ·

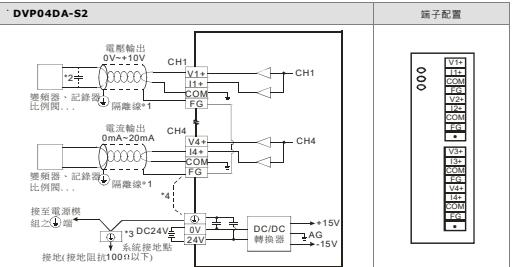
OFFSET: 當數位輸入值為 KO 時的電流輸出值 · 設定範圍: -2,000sb ~ +2,000sb ·

GAIN - OFFSET: 篩量須在 +400sb ~ +6,000sb 之間 ·

總結：



上列表示電壓輸出模式與電流輸出模式之 D/A 轉換特性曲線，使用者可依據實際應用需求來調整轉換特性曲線，調整時以改變 OFFSET 值 (CR#18 ~ CR#21) 及 GAIN 值 (CR#24 ~ CR#27) 來進行。



| CR                          | RS-485 | 編碼 | 參數地 | 保持型 | 寄存器名稱 | b15~b14 b13 b12 b11 b10 b9 b8 b7 b6 b5 b4 b3 b2 b1 b0 |   |   |
|-----------------------------|--------|----|-----|-----|-------|---|---|---|
| <b>CR#30: 錯誤狀態請參照錯誤狀態表：</b> |        |    |     |     |       |   |   |   |
| <b>錯誤狀態</b> <b>內容值</b>      |        |    |     |     |       |   |   |   |
| K1 (H1)                     | 0      | 0  | 0   | 0   | 0     | 0   | 0 | 1 |
| K2 (H2)                     | 0      | 0  | 0   | 0   | 0     | 0   | 1 | 0 |
| K4 (H4)                     | 0      | 0  | 0   | 0   | 0     | 0   | 1 | 0 |
| K8 (H8)                     | 0      | 0  | 0   | 0   | 1     | 0   | 0 | 0 |
| K16 (H10)                   | 0      | 0  | 0   | 1   | 0     | 0   | 0 | 0 |
| K32 (H20)                   | 0      | 0  | 1   | 0   | 0     | 0   | 0 | 0 |
| K64 (H40)                   | 0      | 1  | 0   | 0   | 0     | 0   | 0 | 0 |
| K128 (H80)                  | 1      | 0  | 0   | 0   | 0     | 0   | 0 | 0 |

注：每個錯誤狀態與其相對應的位 b0 ~ b7 決定，有可能會同時產生兩個以上的錯誤狀態。0 代表正常無錯。

例：當數位輸入超過 4000 時會顯示錯誤碼 (K2) 錯誤；當類比輸出超過 10V 時，會同時顯示要換值異常 (K32) 及到處超過 (K2) 的錯誤狀態。

#31 H4051 o R/W 通訊地址設定 · 設定 RS-485 通訊位址 · 設定範圍 01 ~ 254 · 出廠設定為 K1 · 通訊速率共有 8,000 ~ 6,000 bps / 19,200 bps / 38,400 bps / 57,600 bps / 115,200 bps 六種可使用，需依規格可使用之設定來設定 · #32 H4052 o R/W 通訊格式設定

DVP04DA-S CR#32 通訊格式設定說明：前板版本 V4.14 (含) 以下，不開放資料格式 (b11~b8) 選擇，ASCII 固定為 7, E, 1 格式 (代碼 H'00xx) · CR#32 固定為 8, E, 1 格式 (代碼 H'C0xx/H'80xx) · 初版版本為 V4.15 (含) 以上，請參考下表設定 · 并請注意原先設定代碼 H'C0xx/H'80xx 被使用於新通訊格式時，模組將自動設為 RTU, E, 1。

#31 H4051 o R/W 通訊地址設定 · 設定 RS-485 通訊位址 · 設定範圍 01 ~ 254 · 出廠設定為 K1 · 通訊速率共有 8,000 ~ 6,000 bps / 19,200 bps / 38,400 bps / 57,600 bps / 115,200 bps 六種可使用，需依規格可使用之設定來設定 · #32 H4052 o R/W 通訊格式設定

DVP04DA-S CR#32 通訊格式設定說明：前板版本 V4.14 (含) 以下，不開放資料格式 (b11~b8) 選擇，ASCII 固定為 7, E, 1 格式 (代碼 H'00xx) · CR#32 固定為 8, E, 1, 8, 0, 1 / N, 8, N, 1 / 7, E, 2 / 7, O, 2

#32 H4052 o R/W 通訊格式設定 · 設定 RS-485 通訊位址 · 設定範圍 01 ~ 254 · 出廠設定為 K1 · 通訊速率共有 8,000 ~ 6,000 bps / 19,200 bps / 38,400 bps / 57,600 bps / 115,200 bps 六種可使用，需依規格可使用之設定來設定 · #33 H4053 o R/W 通訊格式設定 · 設定 RS-485 通訊位址 · 設定範圍 01 ~ 254 · 出廠設定為 K1 · 通訊速率共有 8,000 ~ 6,000 bps / 19,200 bps / 38,400 bps / 57,600 bps / 115,200 bps 六種可使用，需依規格可使用之設定來設定 · #34 H4054 o R/W 機種版本 · 16 選擇 · 設定目前機種版本 · 如 1.0A 則 H101A ·

#35 ~ #48 系統內部使用 · 符號定義 · R 表示為停用待機保持型 · \* 表示為非停用待機保持型 · R 表示為可選用選擇元件 · 或利用 FROM/OE 令其讀出資料 · 或利用 RS-485 通訊讀取資料 · W 表示可使用 TO 令其寫入資料 · 或利用 RS-485 通訊寫入資料 ·

LSB (Least Significant Bit) 註：當數位輸出為 0 位時，其電壓輸出為 1mA · 由 1mA 計算出 0.5V · 由 0.5V 計算出 1mA · 由 1mA 計算出 2mA · 由 2mA 計算出 4mA · 由 4mA 計算出 8mA · 由 8mA 計算出 16mA · 由 16mA 計算出 32mA · 由 32mA 計算出 64mA · 由 64mA 計算出 128mA · 由 128mA 計算出 256mA · 由 256mA 計算出 512mA · 由 512mA 計算出 1024mA · 由 1024mA 計算出 2048mA · 由 2048mA 計算出 4096mA · 由 4096mA 計算出 8192mA · 由 8192mA 計算出 16384mA · 由 16384mA 計算出 32768mA · 由 32768mA 計算出 65536mA · 由 65536mA 計算出 131072mA · 由 131072mA 計算出 262144mA · 由 262144mA 計算出 524288mA · 由 524288mA 計算出 1048576mA · 由 1048576mA 計算出 2097152mA · 由 2097152mA 計算出 4194304mA · 由 4194304mA 計算出 8388608mA · 由 8388608mA 計算出 16777216mA · 由 16777216mA 計算出 33554432mA · 由 33554432mA 計算出 67108864mA · 由 67108864mA 計算出 134217728mA · 由 134217728mA 計算出 268435456mA · 由 268435456mA 計算出 536870912mA · 由 536870912mA 計算出 1073741824mA · 由 1073741824mA 計算出 2147483648mA · 由 2147483648mA 計算出 4294967296mA · 由 4294967296mA 計算出 8589934592mA · 由 8589934592mA 計算出 1717986912mA · 由 1717986912mA 計算出 3435973824mA · 由 3435973824mA 計算出 6871947648mA · 由 6871947648mA 計算出 13743895296mA · 由 13743895296mA 計算出 27487790592mA · 由 27487790592mA 計算出 54975581184mA · 由 54975581184mA 計算出 109951162320mA · 由 109951162320mA 計算出 219902324640mA · 由 219902324640mA 計算出 439804689280mA · 由 439804689280mA 計算出 879609378560mA · 由 879609378560mA 計算出 175921875120mA · 由 175921875120mA 計算出 351843750240mA · 由 351843750240mA 計算出 703687500480mA · 由 703687500480mA 計算出 140737500960mA · 由 140737500960mA 計算出 281475001920mA · 由 281475001920mA 計算出 562950038400mA · 由 562950038400mA 計算出 112590076800mA · 由 112590076800mA 計算出 2251800156000mA · 由 2251800156000mA 計算出 4503600312000mA · 由 4503600312000mA 計算出 9007200624000mA · 由 9007200624000mA 計算出 18014401248000mA · 由 18014401248000mA 計算出 36028802496000mA · 由 36028802496000mA 計算出 72057604992000mA · 由 72057604992000mA 計算出 14411520992000mA · 由 14411520992000mA 計算出 28823041984000mA · 由 28823041984000mA 計算出 57646083968000mA · 由 57646083968000mA 計算出 115292167360000mA · 由 115292167360000mA 計算出 230584334720000mA · 由 230584334720000mA 計算出 46116866944000mA · 由 46116866944000mA 計算出 922337338880000mA · 由 922337338880000mA 計算出 1844674677760000mA · 由 1844674677760000mA 計算出 3689349355520000mA · 由 3689349355520000mA 計算出 7379198711040000mA · 由 7379198711040000mA 計算出 14758397422080000mA · 由 14758397422080000mA 計算出 29516794844160000mA · 由 29516794844160000mA 計算出 59033589688320000mA · 由 59033589688320000mA 計算出 118067179366640000mA · 由 118067179366640000mA 計算出 236134358733280000mA · 由 236134358733280000mA 計算出 472268717466560000mA · 由 472268717466560000mA 計算出 944537434933120000mA · 由 944537434933120000mA 計算出 188907466986640000mA · 由 188907466986640000mA 計算出 377814933973280000mA · 由 377814933973280000mA 計算出 755629867946560000mA · 由 755629867946560000mA 計算出 1511259739893200000mA · 由 1511259739893200000mA 計算出 3022519479786400000mA · 由 3022519479786400000mA 計算出 6045038959572800000mA · 由 6045038959572800000mA 計算出 1209007911615600000mA · 由 1209007911615600000mA 計算出 2418015823231200000mA · 由 2418015823231200000mA 計算出 4836031646462400000mA · 由 4836031646462400000mA 計算出 9672063292924800000mA · 由 9672063292924800000mA 計算出 19344126645749600000mA · 由 19344126645749600000mA 計算出 38688253291498000000mA · 由 38688253291498000000mA 計算出 77376506582996000000mA · 由 77376506582996000000mA 計算出 15475301316592000000mA · 由 15475301316592000000mA 計算出 30950602632184000000mA · 由 30950602632184000000mA 計算出 61801204520368000000mA · 由 61801204520368000000mA 計算出 12360240904136000000mA · 由 12360240904136000000mA 計算出 24720481808272000000mA · 由 24720481808272000000mA 計算出 49440963616544000000mA · 由 49440963616544000000mA 計算出 98881927232288000000mA · 由 98881927232288000000mA 計算出 19776385446456000000mA · 由 19776385446456000000mA 計算出 39552770892912000000mA · 由 39552770892912000000mA 計算出 79105541785824000000mA · 由 79105541785824000000mA 計算出 15821108357168000000mA · 由 158211083571680