CONTROL PACK

RS-232

TECHNICAL SPECIFICATIONS

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- Controller Model : DH Series
- Hopper Applicable Models : All Hopper Series
- Environment Humidity : below 85%(noncondensing)
- Input Voltage Range : 12VDC、24VDC, MAX 12.00A
- Output Voltage Range : 11VDC - 23VDC
- Environment Temperature : -10℃ ~+50℃

ACCESSORIES:

- standard 15PIN male female connector
- 2 output wire (30cm)
- USB TO mini USB cable or RS232 cable (1M)
- instruction set list
- sample test software include source

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- 控制器型號 : DH 系列
- 退幣機使用範圍 : All Hopper Series
- 入電力範圍 : 12VDC、24VDC MAX 24.00A、12.00A
- 輸出電力範圍 : 11VDC、23VDC
- 環境溫度 : -10° C~+50° C
- 環境濕度 : 85% 以下 (noncondensing)

標準配件 :

- 標準15PIN公母端子插座
- 出口導線二條 (30cm)
- RS232連接線(1M)
- USB連接線(1M)
- 指令表
- 範例程式 含 原始碼

ATTENTION

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- SYMOTOR SEIKO cannot honor warranty terms or be held legally liable for damages caused by the hoppers not using hopper control pack from SYMOTOR SEIKO.

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- 若購買退幣機，卻無搭配敝司控制器使用者，所發生之一切損壞，將不享有保固責任。

DH-1 Series
Patent

CHARACTERISTICS

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- RS232 serial port、USB interface control Hopper.
- Input power of 24VDC provided for controller, connected to a computer via RS232、USB port for performing control from the computer.
- Built-in RAM and micro processor.
- Action and quantity of coin dispense is controlled by in-built micro processor, the operation is triggered by an coin dispense quantity setup without receiving optical-electrical signal and brake control.
- Support multiple setting of Hopper ID. After setting up the Hopper ID, still ensuring to payout the correct coin kinds even the power cut or change the COM port.
- Support real-time monitoring on quantity of coin to be dispensed, quantity of coin to be stored, motor operation status and coin stuck status.
- Support switch between computer control and manual control.
- Support compulsory operation instructions such as compulsory operation and report on the quantity of dispensed coins and compulsory operation stoppage.
- Reverse current protection, over current protection and polarity reversal protection.

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- RS232、USB 通訊介面控制。
- 入電 24VDC 給控制器，連結 RS232、USB接口，即可由電腦控制。內建暫存記憶體、微處理器。
- 出幣動作與數量由內建處理器負責，只需下達退幣數量命令，不須另外接收光電訊號與執行剎車控制。
- 支援多組退幣機ID設定，設定退幣機的ID代碼後，即使斷電後，COM PORT更換，也能確保硬幣機的退幣幣別正確。
- 支援即時監控，出幣剩餘數量、硬幣容量存留量、馬達是否運轉、卡幣狀態。
- 支援由電腦切換手動控制與否。
- 支援強制運轉命令與強制出幣數量回報，強制停止等指令。
- 逆電流保護、過電流保護功能、極性反接保護。

CHARACTERISTICS

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- The following is an exemplary illustration of the application. The instructions can be used to cash flow processing such as automation change system, or automatic multi-spindle DC motor control.
- The company is planning on introducing a motor controller system with communication interface in the future, aiming to provide more diversified application in various fields.

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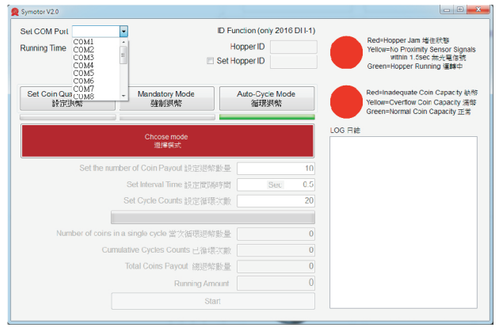
- 如下為簡易程式範例，若善用指令可發揮於現金流量處理方面，如找零系統就有很多地方可以著墨、或者自動化多軸直流馬達控制方面等。
- 敝司計畫於未來推出通訊介面的馬達控制器系統，以期可以更多方面的應用。



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USB DRIVERS

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Please use based on your Windows system, choose to download the driver.
There are currently provided by the drive system is as follows:

- Windows 7/8/8.1/10
- Windows XP/Server 2003/Vista/7/8/8.1
- Windows 2K
- WinCE 6.0
- WinCE 5.0
- Macintosh OSX(v4)
- Linux 2.6.x and 3.x.x
- Android 4.2

The above drivers available from our website. "Http://www.symotor.com.tw/nweb/cht/support/coin.htm".

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依照所使用的視窗系統，選擇下載驅動程式。目前有提供的驅動系統如下：

- Windows 7/8/8.1/10
- Windows XP/Server 2003/Vista/7/8/8.1
- Windows 2K
- WinCE 6.0
- WinCE 5.0
- Macintosh OSX(v4)
- Linux 2.6.x and 3.x.x
- Android 4.2

以上驅動程式可於網址"http://www.symotor.com.tw/nweb/cht/support/coin.htm"獲得。

APPLICATION

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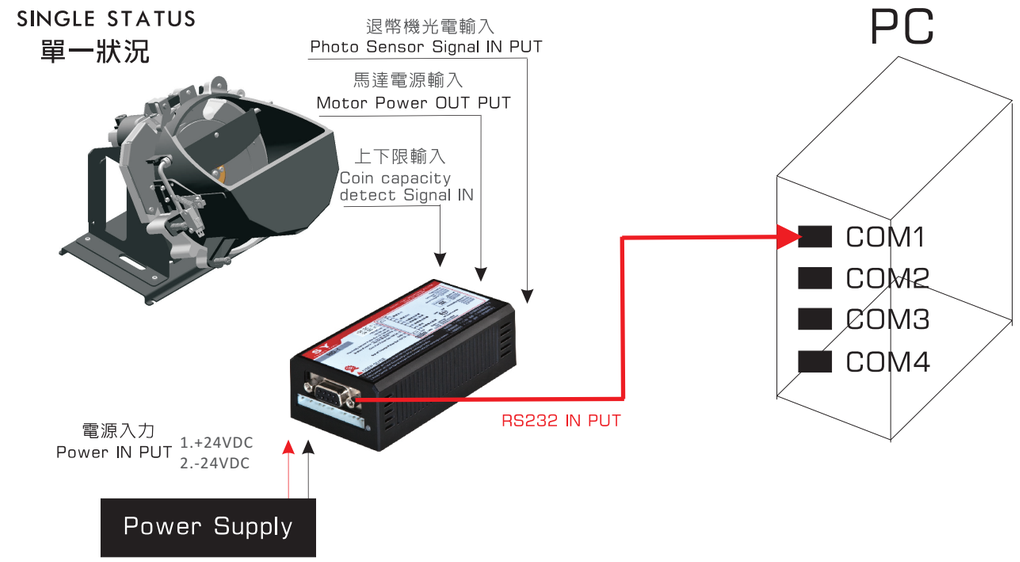
The instructions are categorized in 13 types as the following:

- Switch between communication control and manual control
- Hopper ID setup
- Inquiry the Hpper ID (refer to 2.)
- Coin dispense quantity setup
- Compulsory operation
- Compulsory brake
- Clear the quantity data for coins to dispense (refer to 4.)
- Clear the quantity data of coins dispensed (refer to 5.)
- Inquiry on quantity of coins to dispense (refer to 4.)
- Inquiry on quantity of coins dispensed (refer to 5.)
- Detection on coin stuck status
- Inquiry on Full Coins or Low Coins
- Detection on if the motor is in operation and continue to dispense coins

The following is an exemplary illustration of the application. The instructions can be used to cash flow processing such as automation change system, or automatic multi-spindle DC motor control.

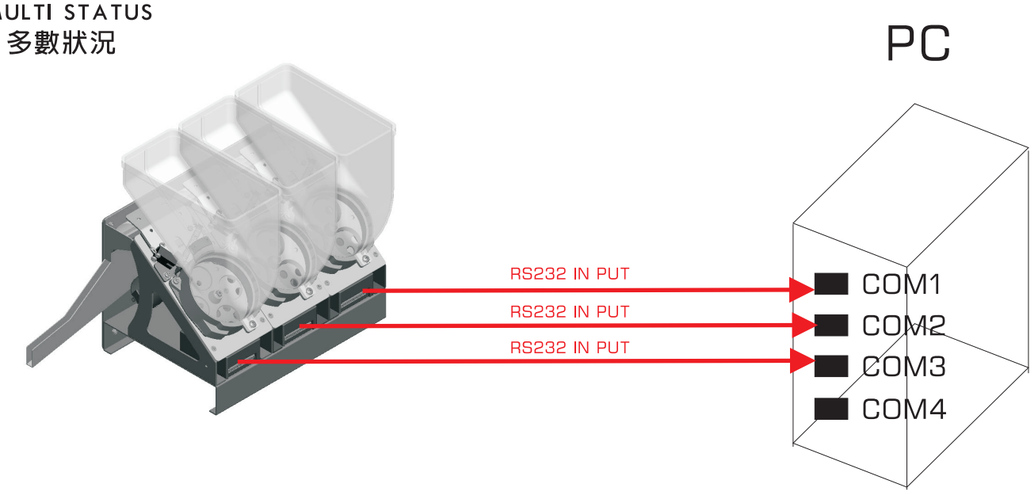
DH-1 Series
Patent

WIRING DIAGRAM



⚠Notes:
When first time to use USB communication, the controller will automatically take a unused RS232 port and occupation the port.

當初次使用USB通訊時，控制器會自動固定佔用一個未使用的RS232通訊埠編號。



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