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# Introduction

# EQP Status Registers(Input Status)

* + - * 說明 : 此表為設備的連續數入點狀態，包含設備交握訊號與狀態訊號。
      * Modbus功能碼 : **Function Code - 02** (Read Input Status)
      * 備註 : **若設備僅有單一Port(如單一轉換架)，僅需使用Register 1-11**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Register** | **Name** | **R(讀)/W(寫)** | **Scope** | **Comment** |
| 1 | L\_REQ | R | LD/ULD Handshake-Port1 |  |
| 2 | U\_REQ | R | LD/ULD Handshake-Port1 |  |
| 3 | EQ\_READY | R | LD/ULD Handshake-Port1 |  |
| 4 | EQ\_BUSY | R | LD/ULD Handshake-Port1 |  |
| 5 | Reserve | R |  |  |
| 6 | Load\_Request | R | Status Report DI-Port1 |  |
| 7 | Unload\_Request | R | Status Report DI -Port1 |  |
| 8 | Port\_Exist | R | Status Report DI -Port1 |  |
| 9 | Port Status Down | R | Status Report DI -Port1 |  |
| 10 | LD\_UP\_POS | R | Status Report DI -Port1 |  |
| 11 | LD\_DOWN\_POS | R | Status Report DI -Port1 |  |
| 12 | Reserve | R | Reserve |  |
| 13 | L\_REQ | R | LD/ULD Handshake-Port2 |  |
| 14 | U\_REQ | R | LD/ULD Handshake-Port2 |  |
| 15 | EQ\_READY | R | LD/ULD Handshake-Port2 |  |
| 16 | EQ\_BUSY | R | LD/ULD Handshake-Port2 |  |
| 17 | Reserve | R |  |  |
| 18 | Load\_Request | R | Status Report DI -Port2 |  |
| 19 | Unload\_Request | R | Status Report DI -Port2 |  |
| 20 | Port\_Exist | R | Status Report DI -Port2 |  |
| 21 | Port Status Down | R | Status Report DI -Port2 |  |
| 22 | LD\_UP\_POS | R | Status Report DI -Port2 |  |
| 23 | LD\_DOWN\_POS | R | Status Report DI -Port2 |  |

# AGVS Status Registers (Coils)

* + - * 說明 : 此表為AGVS連續數出點狀態，包含設備交握訊號與狀態訊號。
      * Modbus功能碼 : 寫入 : **Function Code-05**(Write Single Coil) or **15** (Write Multiple Coils)。

讀取 : **Function Code-01**(Read Coil Status) 。

* + - * 備註 : **若設備僅有單一Port(如單一轉換架)，僅需使用Register 1-12**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Register** | **Name** | **R(讀)/W(寫)** | **Scope** | **Comment** |
| 1 | VALID | R/W | LD/ULD Handshake– Port1 |  |
| 2 | TR-REQ | R/W | LD/ULD Handshake– Port1 |  |
| 3 | BUSY | R/W | LD/ULD Handshake– Port1 |  |
| 4 | COMPT | R/W | LD/ULD Handshake– Port1 |  |
| 5 | AGV\_READY | R/W | LD/ULD Handshake– Port1 |  |
| 6 | Reserve | R/W | Reserve |  |
| 7 | Reserve | R/W | Reserve |  |
| 8 | Reserve | R/W | Reserve |  |
| 9 | To EQ Up | R/W | Status Report DO – Port1 | 預計與EQ上層進行取放訊號(To EQ Low ON時,不可ON) |
| 10 | To EQ Low | R/W | Status Report DO– Port1 | 預計與EQ下層進行取放訊號(To EQ Up ON時,不可ON) |
| 11 | CMD reserve Up | R/W | Status Report DO– Port1 | AGV命令預約，通知EQ即將執行任務訊號(上層) |
| 12 | CMD reserve Low | R/W | Status Report DO– Port1 | AGV命令預約，通知EQ即將執行任務訊號(下層) |
| 13 | Reserve | R/W | Reserve |  |
| 14 | VALID | R/W | LD/ULD Handshake– Port2 |  |
| 15 | TR-REQ | R/W | LD/ULD Handshake– Port2 |  |
| 16 | BUSY | R/W | LD/ULD Handshake– Port2 |  |
| 17 | COMPT | R/W | LD/ULD Handshake– Port2 |  |
| 18 | AGV\_READY | R/W | LD/ULD Handshake– Port2 |  |
| 19 | Reserve | R/W | Reserve |  |
| 20 | Reserve | R/W | Reserve |  |
| 21 | Reserve | R/W | Reserve |  |
| 22 | To EQ Up | R/W | Status Report DO – Port2 | 預計與EQ上層進行取放訊號(To EQ Low ON時,不可ON) |
| 23 | To EQ Low | R/W | Status Report DO– Port2 | 預計與EQ下層進行取放訊號(To EQ Up ON時,不可ON) |
| 24 | CMD reserve Up | R/W | Status Report DO– Port2 | AGV命令預約，通知EQ即將執行任務訊號(上層) |
| 25 | CMD reserve Low | R/W | Status Report DO– Port2 | AGV命令預約，通知EQ即將執行任務訊號(下層) |

# Load/Unload交握時序圖