RED LION CONTROLS AP
DEMO BOX OPERATION MANUAL
產示箱操作手冊

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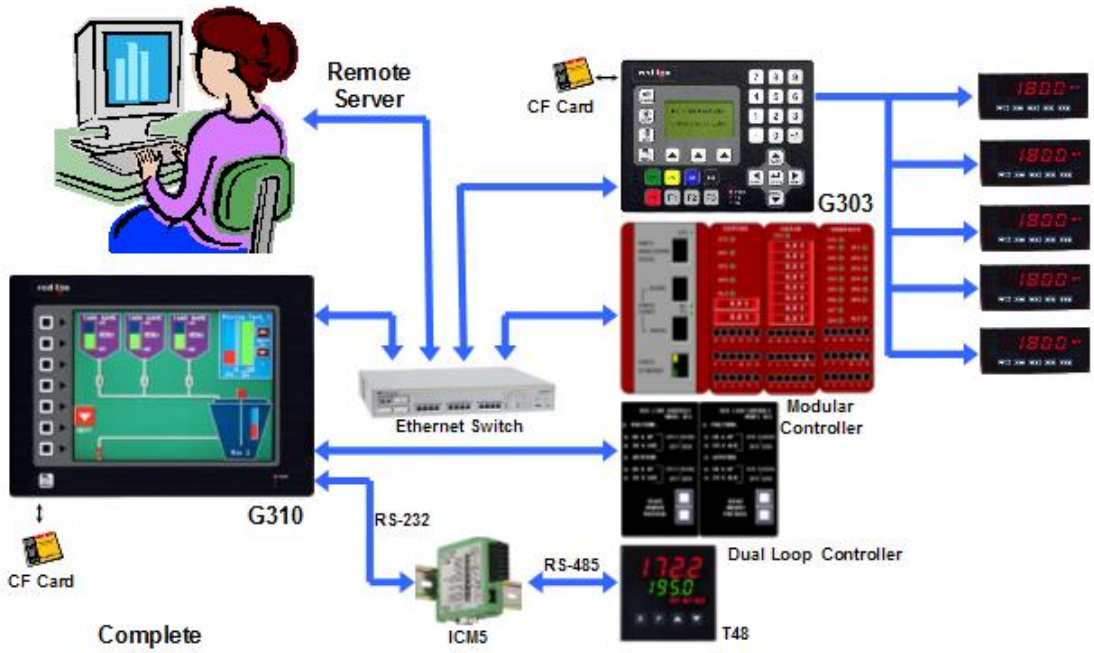
● INTRODUCTION

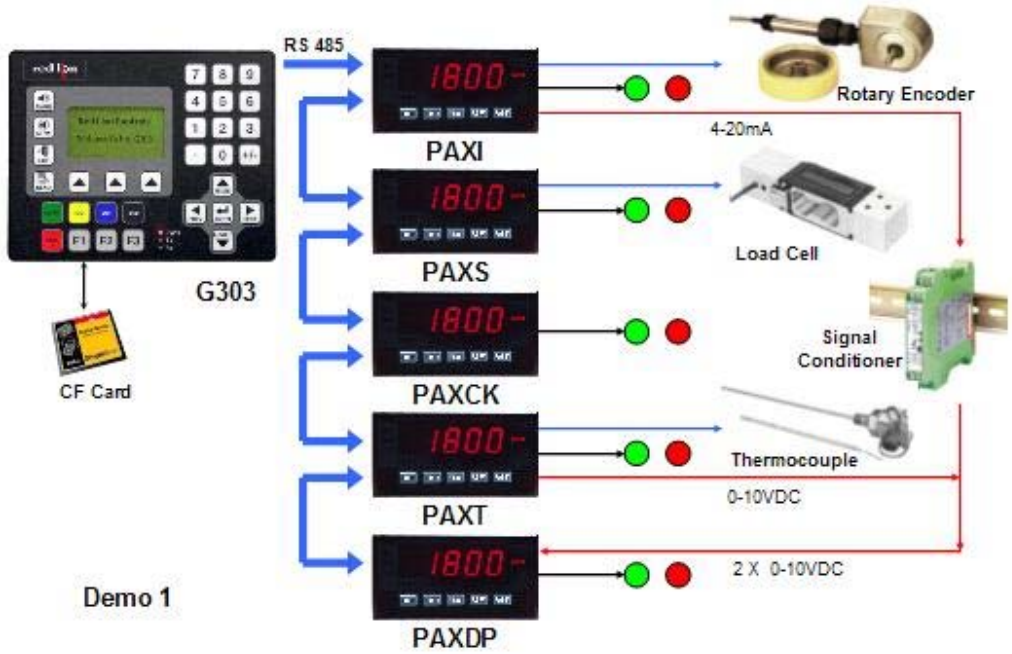
1. Recent feedback from the Sales Channels suggested that we need to have some sort of Demo Boxes. This is because Red Lion Controls has a range of value added quality product and thus to demonstrate the capabilities of the product, the customer need to see in order to have a feel on the product.
近來,業務部門建議我們應該製作展示箱，由此不但可以增加產品的加價值,也藉此展示品的功能，也可讓客戶產生購買的需求.

2. The demo boxes should be easy to carry around and compact in size.
展示箱務必要符合輕巧，又容易攜帶

3. The demo boxes should be able to demonstrate focus product from Red Lion Controls.
展示箱務必要完全能夠把焦點放在紅獅產品上

4. The demo boxes should be able to show the functionality of the products.
展示箱務必要完全展現紅獅產品的功能




RS 485
PAXI
PAXS
PAXCK
PAXT
PAXDP
G303
CF Card
Rotary Encoder
4-20mA
Load Cell
Signal
Conditioner
Thermocouple
0-10VDC
2 X 0-10VDC
Demo 1

Demo 1


G303-HMI
red lion
PAXI COUNTER / RATE
PAXS
STRAIN GAUGE/
LOAD CELL
PAXCK
TIMER
PAXT
TEMPERATURE
THERMOCOUPLE
CELL
ON/OFF
SWITCH
PAXDP
MULTI PROCESS
DC INPUT
PSDR7000
POWER
SUPPLY
AAMA 3535
SIGNAL
CONDITIONAL

● Demo box 1:

1. The basic idea is to have the G303 communicating with 5 PAX meters via RS 485.
設計的基本概念是 由G303人基介面 連接RS485 和 5 個 PAX表頭

2. The Panel meter will have different input as follows : 它有如下的輸入
- **PAXI** - Counter and Rate Indicator linked to Rotary Encoder 計數器和速率表連接到譯碼器
- **PAXS** - mV input such as Load Cell and Strain Gage 輸入荷重元和重量計
- **PAXCK** - Timer/ Clock 計時器 或 時鐘
- **PAXT** - Temperature input such as TC and RTD 輸入溫度控制 如 TC 或 RTD
- **PAXDP** - Dual Process (0-10VDC/4-20mA) input with math function
- 雙路輸入 0-10V/4-20mA 加上運算功能

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3. Each of the PAX meter will have 2 contact output so that when the input exceeded certain value, contact will be activated. 每個PAX表頭都有二個接點輸出，因此當輸入超出一定值時，接點就被啟動.

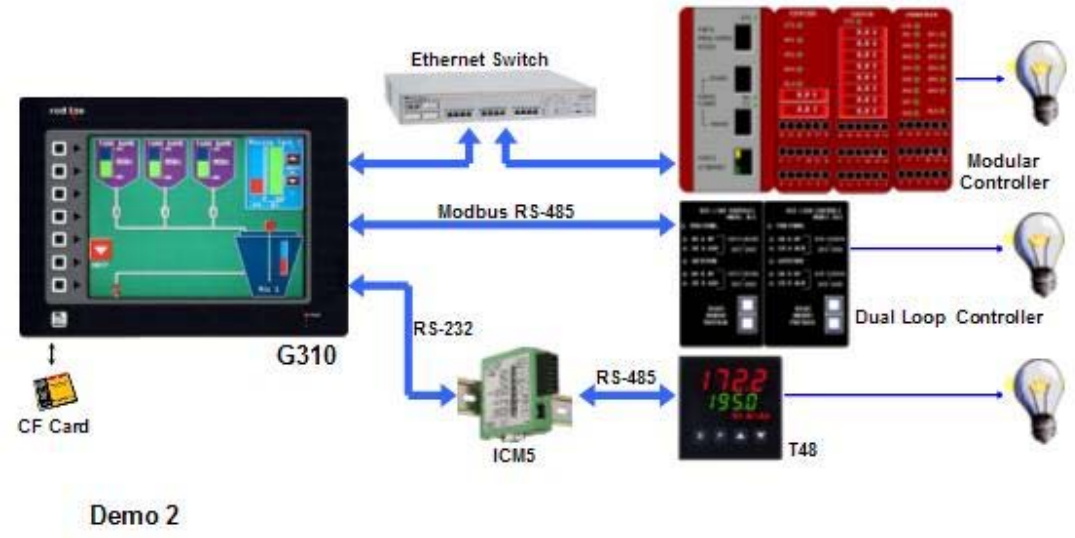
4. PAXI and PAXT will have Analog output to PAXDP.
PAXI 和 PAXT 有類比輸出到 PAXCP.

5. All info of the PAX will be shown in the G303.
所有在PAX的資料都會顯示在 G303人基銀幕上.

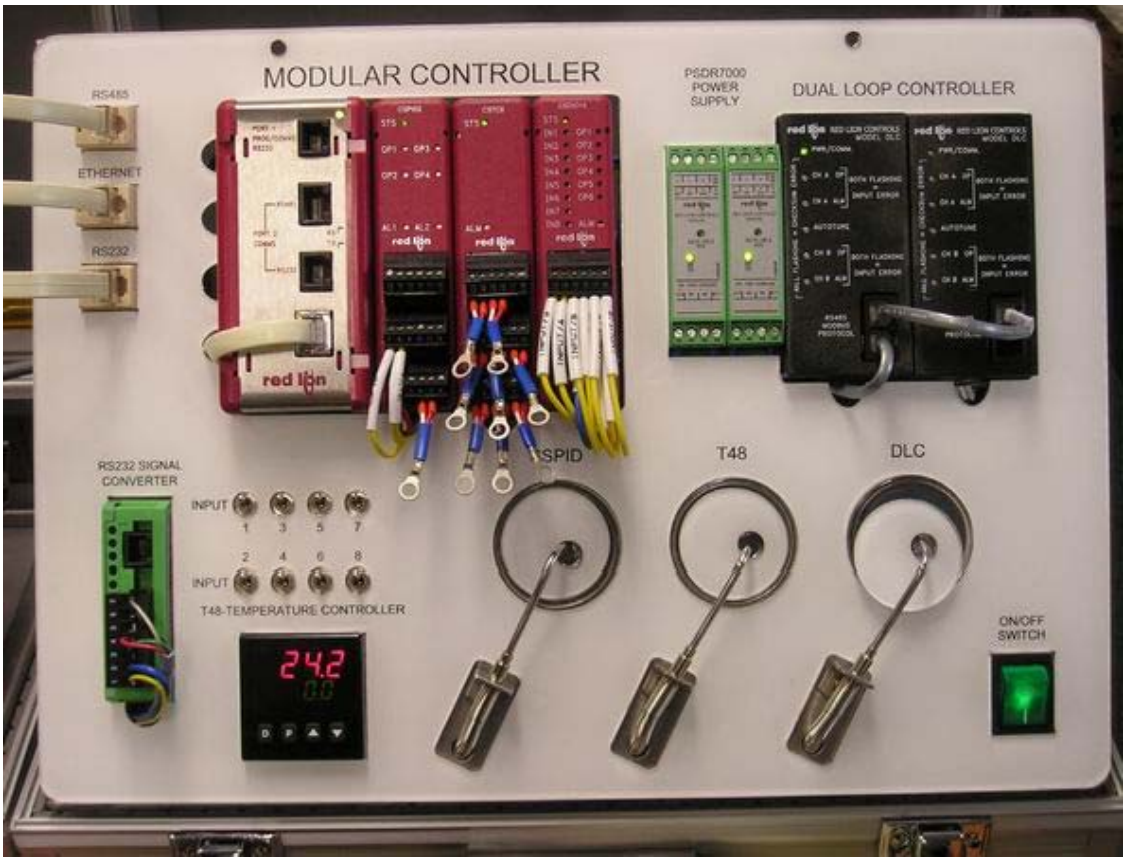
6. Data logger information will be saved as CSV files in the CF Card.
所有 DATA數據 都以CSV檔形式，儲存在 CF 記憶卡.

7. By assigning an IP address, the unit can be linked to the PC via remote server.
由指定的IP位置，可經終端機，連接進入PC主機.

Demo 2:


Ethernet Switch
Modular Controller
Modbus RS-485
Dual Loop Controller
RS-232
RS-485
G310
CF Card
ICM5
T48
Demo 2

Demo 2:


MODULAR CONTROLLER
PSDR7000 POWER SUPPLY
DUAL LOOP CONTROLLER
RS485
ETHERNET
RS232
SPID
T48
DLC
RS232 SIGNAL CONVERTER
INPUT
T48-TEMPERATURE CONTROLLER
ON/OFF SWITCH

- Demo box 2:

1. Demo 2 consists of 2 Demo Boxes. This is so because there are too many equipment to be put into 1 box.
   因為一號箱安置過多零組件，因此二號展示箱改為包括2個箱子.

2. Since we have 3 different types of devices, we can now fully utilize all communication's port.
   這裡有3個不同的裝備，我們可以完整的安裝所有的通訊port位置.

3. Modular Controller will be linked to the Ethernet Switch so that the extra ports can be used as Web server or communication port to other Ethernet enabled devices.
   模組控制器會連接到 Ethernet開關，所以額外的ports 可以被用當成網路或通訊port，然後連上其他的 Ethernet 網路.

4. The Modular Controller itself consists of Master Unit, 1 CSPID2, 1 CSTC8 and 1 CSDIO14.
   模組控制器 內含 Master Unit, 1 CSPID2, 1 CSTC8 and 1 CSDIO14.

5. The 2 units of DLC will be linked to the G3 via Rs-485 Modbus.
   二個 DLC (雙迴路控制) 會被經由 RS-485 Modbus 連到 G3 人基.

6. The T48 will be linked to the G3 via ICM5 which is a signal converter.
   T48溫度表 經由ICM5 (信號轉換器) 連接到 G3人基.

7. Each Controller will be use to control the Temperature from the halogen bulb.
   各個控制器連接上 T48 溫度表，進而來控制鹵素燈泡

8. Information will be stored in the CF card for data logger.
   數據資料存檔在 CF 記憶卡上.

9. The information will be linked into the PC via the extra Ethernet switch port.
   數據資料經由 Ethernet 網路連接到PC.

● Demo Box 3

1. Complete system will have 3 demo boxes working together as a system.
   3個demo箱在一起成為完整的系統.

2. Each G3 will be addressed with a specific IP address.
   每個G3人基 安裝在一個特別的IP 位置

3. The G3, Modular Controller and PC will be linked together via Ethernet Switch.
   G3 人基, 控制摸組, 和電腦PC 經由 Ethernet開關連接網路

4. The PC will be given another specific IP address. To act as Web Server, we only need to use the Internet Explorer. Type in http://IP address of the HMI and the Internet Explorer will act as Web Server.
   電腦PC 只要透過 window IE, 鍵入一個http://….HMI 人基的IP位置, 即可成為網際網路主機.

Demo Box 3: