

WPC-Ethan-F4

Ethernet DAQ user guide

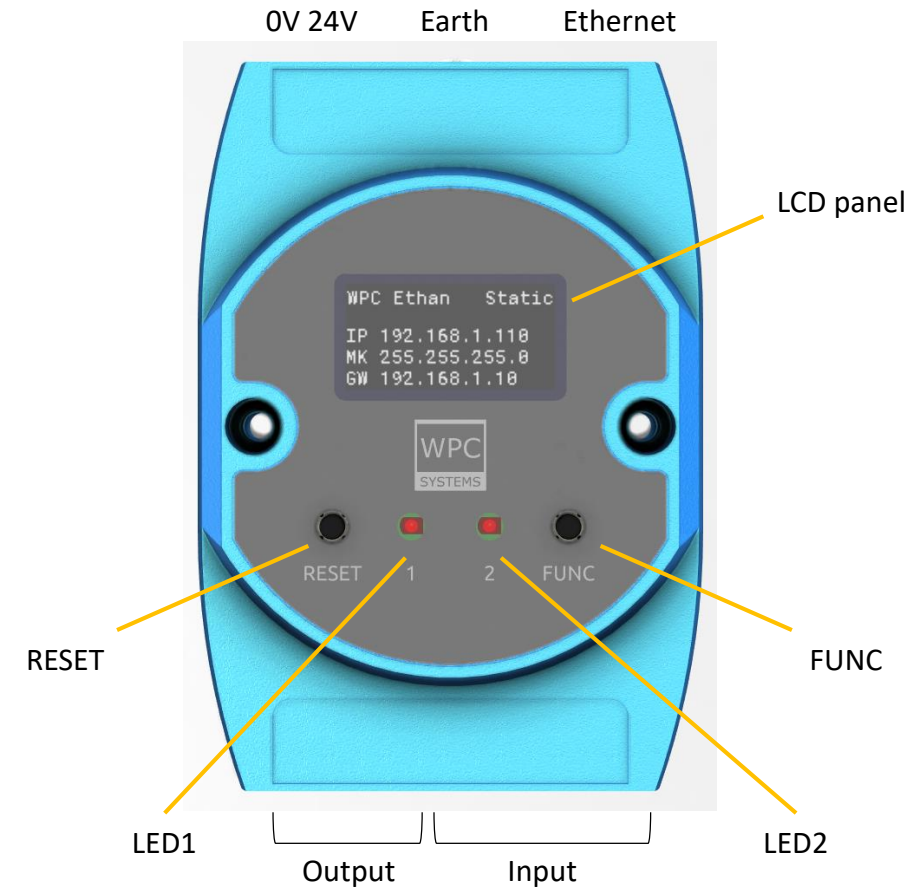
WPC Systems Ltd.

Justin Wu

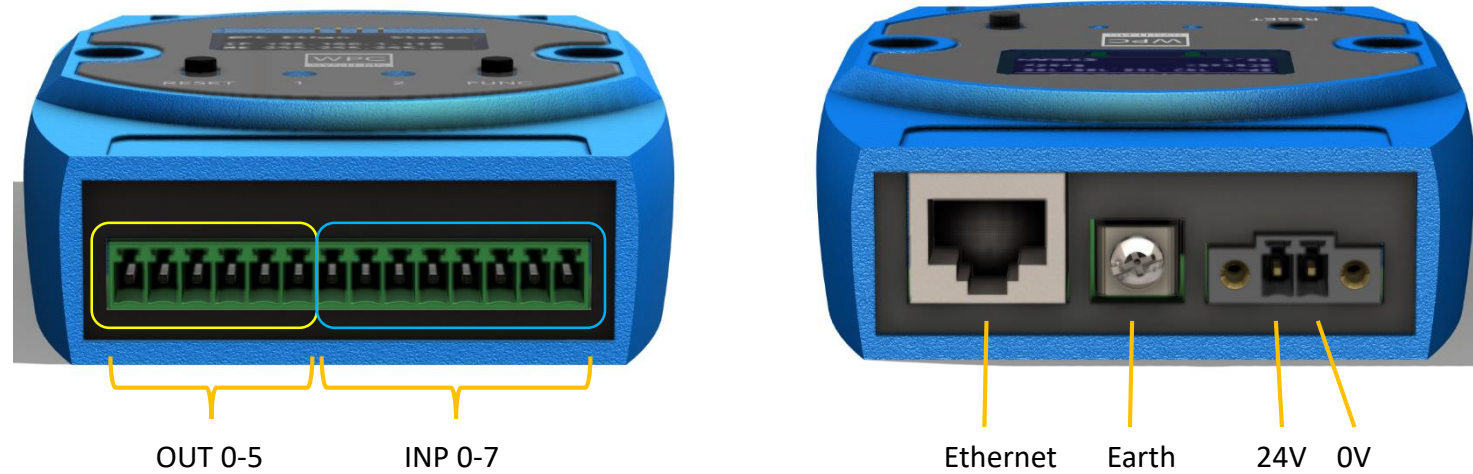
2021-12-07

Features & functions

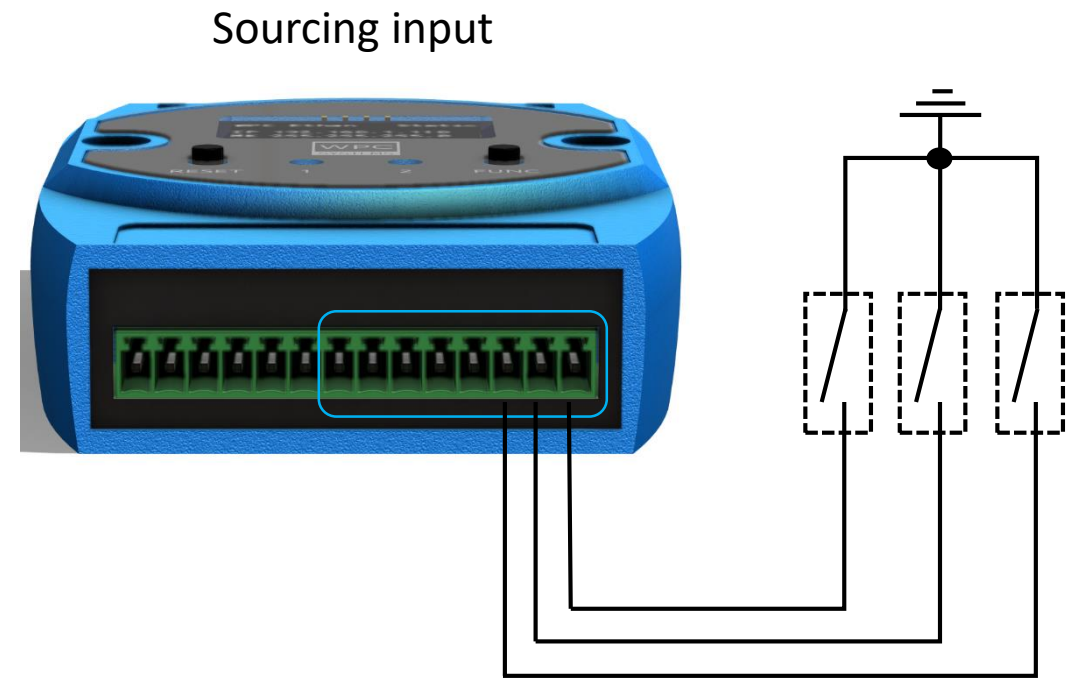
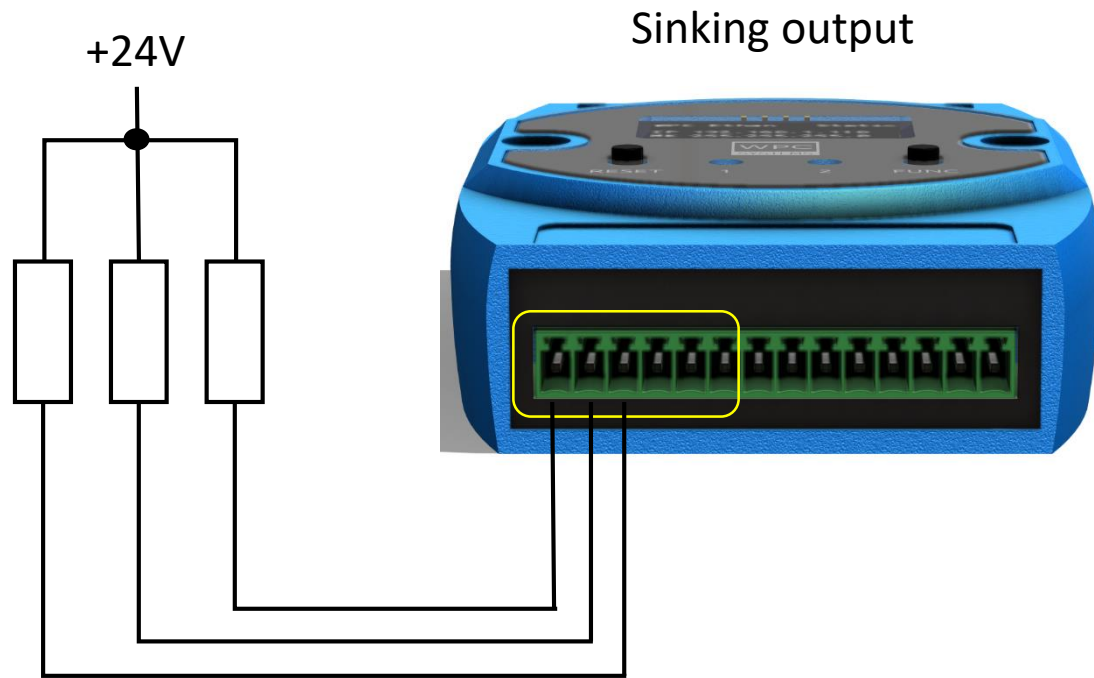
- 10/100 T-based Ethernet interface
- 6ch opto-isolated digital output (DO)
- 8ch opto-isolated digital input (DI)
- Power input: 24VDC
- Display for network info, I/O status and error messages.
- Configurable I/O power-up-state.
- Press and hold FUNC button for at least 5 seconds for factory default IP setting.
- Device search function while In-consistant IP setting condition
- Fully compatible with LabVIEW environment (Driver API, software front panel, example codes)



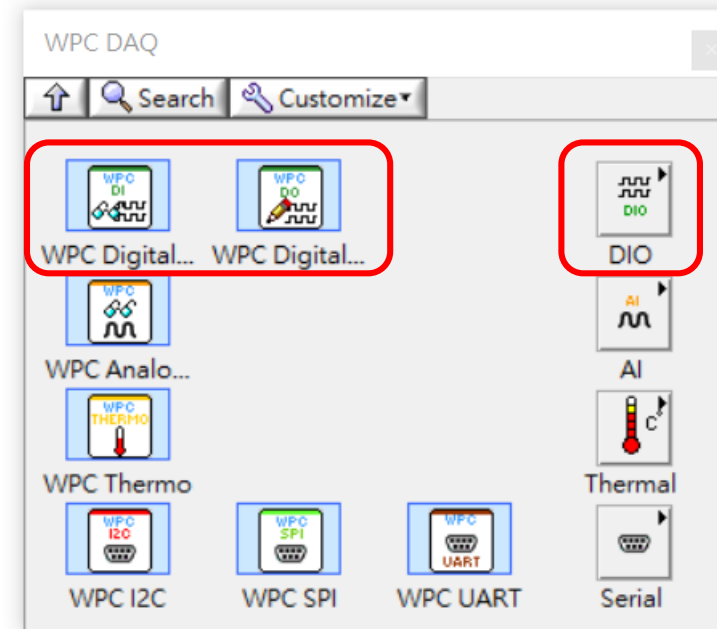
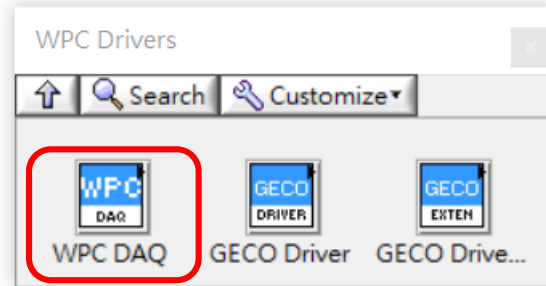
Appearance (front and rear)



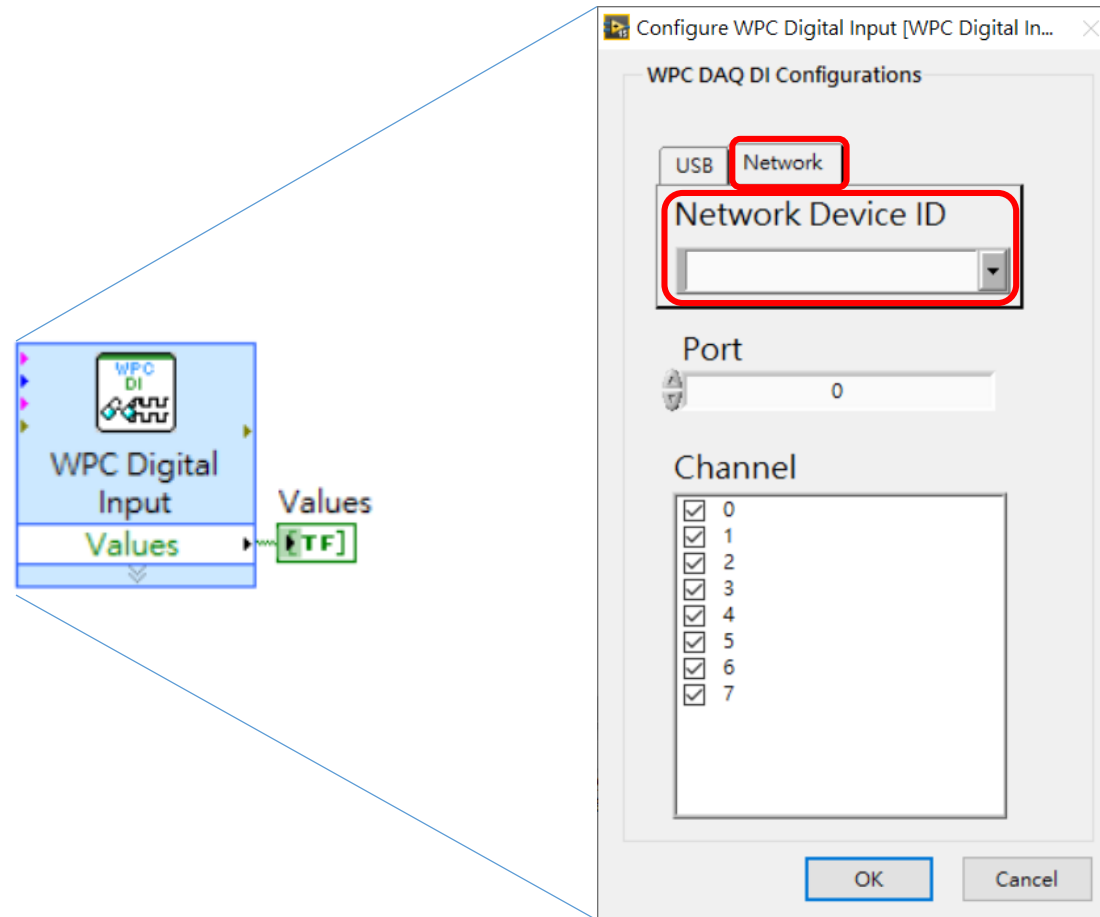
Connection diagram



Driver API

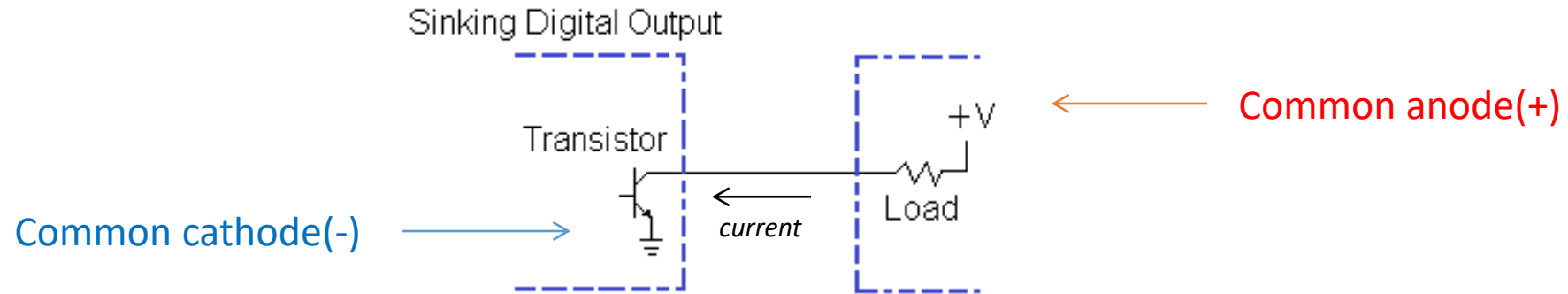


Express VI



Appendix

Sinking output – sourcing input (NPN)



Sinking output 意思就是輸出 port 的電流方向是屬於吸入式的（sinking）。

Sinking output 搭配 sourcing input 是屬於一種台灣最常見的訊號格式。

常在日系、日規設備上面看到，在台灣大概佔比 80% 以上。

俗稱NPN、輸出“地”，或者輸出 0 伏。輸出本身是不帶電的，因此 DO_COM 點都是共地。相反的，從輸入方面來看，DI_COM 就必須共陽極（24V）

輸出、輸入相連接時才能構成一個完整迴路。