

工作項目

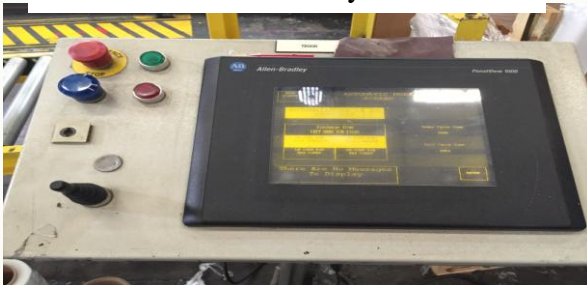
1. Manage network system and electrical document.
2. Upgrade BE02 HMI Touchscreen Display Project.
3. Automatic control training – Allen Bradley PLC program.
4. Assistant engineers to maintain machines and troubleshooting.
5. Drawing BE01 to BE10 single line diagram of electrical distribution.

內容摘要

TOUCH SCREEN DISPLAY UPGRADE PROJECT

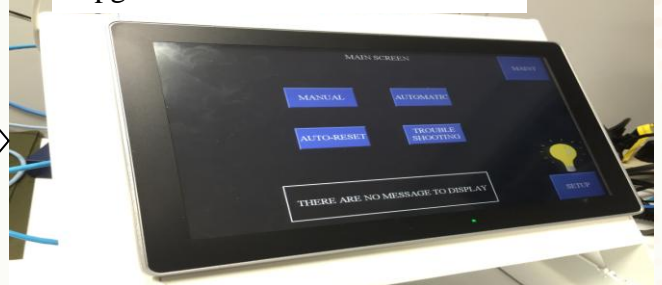
The currently using Touch-Screen display on BE02 is Allen Bradley PV1000 which is unapparent and insensitive. The price of AB PV1000 is very expensive (over \$7,000) and the Red-Lion Graphit-12" is only \$2,800. We use Red-Lion Graphit-12 HMI for replacement. AB PV1000 uses Data High Way Plus to communicate with AB SLC 5/04 PLC. The Red-Lion HMI doesn't support DH+ protocol. We finally decide to upgrade SLC 5/04 to SLC 5/05, which has Ethernet communication port. Ethernet is more and more widely used in automation industry field, and the new PLC CPU and HMI can be easily modified for more functions.

BE02 Old Allen Bradley Panel View



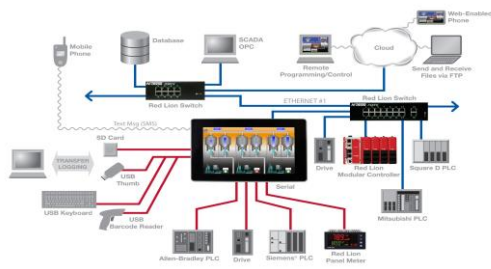
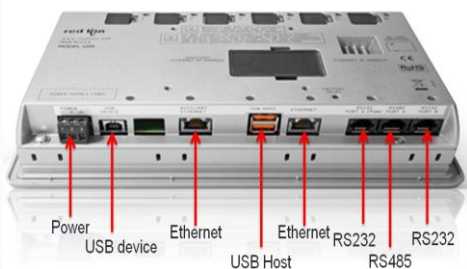
Upgrade

Upgrade Red Lion Touch-Screen

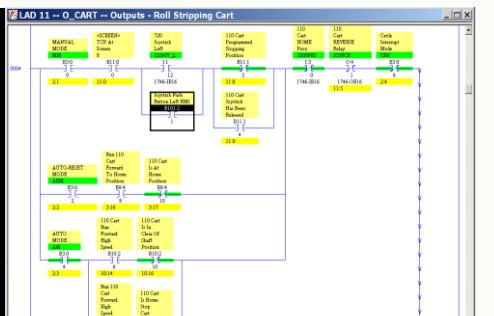
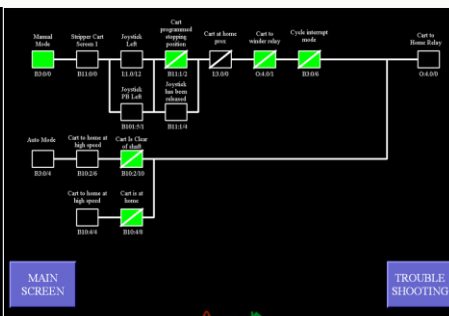
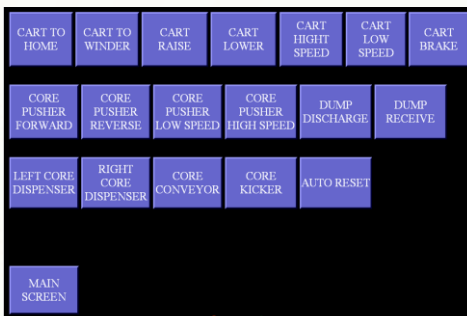


The modules connect and communicate via different communication devices like USB, Ethernet, RS-232, and Data High Way connection to the touch-screen. Once the expansion modules are connected with the touch-screen, the touch-screen can start controlling and monitoring the remote devices. SLC 5/05 Processor supports 10/100Base-T Ethernet channel which has high-speed communication using TCP/IP.

實習成果



According to PLC program, we also add troubleshooting functions into new Touch-Screen for engineers and technicians to found the problem efficiently and to reduce machine downtime. The troubleshooting page shows the I/O data from PLC program, to identify the situation.



電機工程

姓名： 林健富

實習公司：Inteplast Group 指導主管：Jim Yang

實習單位：CFP Maint.

實習期間：103/09~104/09 輔導老師：張嘉德