

COVERED TOPICS WORK STATION PTS F88

The following are the topics related to our PLCs .This document will give you idea of why to use or buy our products.

PROGRAMMING

Ladder	Use the classic ladder programming technique.
Basic	Using both, ladder and basic you can make more complex programs with just few lines.
On-line monitoring	Through the com port on the PLC, you can monitor the status of inputs outputs, Timers and counters. You can also force the status. Now, imagine doing the same but trough Internet.
Simulation	Our Software allows you to develop your control project without having your PLC connected. You can test the project in your PC. When you have it ready download it to the PLC.

COMMUNICATIONS

Ports	Independent display port plus other RS 232 and RS 485 ports that can be used to program connect to other PLCs or devices using different protocols like Modbus, TCP/IP, etc. Every port can have a different protocol.
Protocols	Modbus RTU, which you can use to make to connect to many different manufacturers. Since you can program in basic, you also can develop your own protocol using ASC II commands. Other protocols like C20h from omrom and its own protocol.
Internet	To make a connection trough Internet you have two options: The TLServer (which is software included with your programming software) and the XServer (Miniature module that doesn't require PC). Now, with a simple browser like Internet explorer you can program, monitor or control you PLC from anywhere in the world. The XServer allows you to have up to 4 simultaneous TCP/IP connections, and with the RS 322 port converted to RS485, up to 255 PLCs.
E-mails	The PLC can automatically send E-mails when an event occurs or can be programmed to send production reports periodically, etc.

OPERATOR INTERFACES

Displays	The PLC has a port to directly connect a 2 x16 LCD 4x20 LCD can be used to show real time data.
Numeric Panel	Using the comm ports or external input/outputs you can connect numeric keyboard. Simply use Modbus protocol.

SCADAS

Excel	Yes, you can use this popular spreadsheet from Microsoft R to perform on- line control. You can draw push buttons and execute visual Basic macros (from Excel).You only need the tri-excellink as an interface between the PC and PLC.
Indusoft	Our SCADA is the only one prepared to work in normal Windows (XP, 2000, NT) and Windows CE (they are in the pocket PCs and cell phones). Everything is included: recipes, trends, reports and three comm. Drivers (Out of 200) that you can select as you want.
Other SCADA Software	If you already have the SCADA, just use the Modbus protocol and you won't have any problem connecting to the PLC.

NETWORKS

RS 485	This PLC has an RS 485 port to connect up to 255 PLCs.
RS 232	Use our low cost converter 232/485 and turn it into another RS 485 port.
LAN	Connect our Xserver to the RS232 port and ETHERNET/ INTERNET immediately.

INSTRUCTIONS

Control	All the basic instructions for ladder programming are included. You can read/ force an output, etc.
Motion Control	Functions to drive servo and stepper motors. With just an instruction you can make ramps, accelerations, decelerations in stepper motors. Complete motion controls using the high speed inputs of the PLC.
Integer Math	All the calculation are in 32 bits
PWM	All the technology in pulse width Modulation is included. The PLC has two 10 Amp outputs for this purpose
High Speed Inputs	Two inputs capable of measuring up to 15 Khz. You can connect sensors, encoders or pulse sensors.
Data Memory	You can store up to 4000 registers (16 bits each) using the DMs.
Analog signals	Since the PLC has analog inputs / outputs you can control, perform mathematics, or store data, with very simple and powerful instructions.
Basic	All the instructions in BASIC language. Very complex programs will turn into simple lines of instructions.
Modbus	The only one with possibility to handle directly Modbus instructions. With most of our competitors you would have to define ID, bytes, strings, etc.

ASSEMBLY

Integrated Circuits	All the ICs are mounted on DIL bases, so you can easily remove /replace them in case of damages. You will never lose your investment.
Board	The board is exposed. You will use a panel for the rest of the devices anyway. However our PLCs are proven to work in the most hostile environments.

OPTIONALS

Analog I/O	If you need more Analog I/O please visit our link http://www.lt-automation.com/AnalogModules.htm/ for Expansions modules that can be connected to the RS 232 or, RS 485 ports. Please check our Universal module, which can read independently 0-5, 0-10 VDC 0-20mA, 4-20mA or any thermocouple in any of its channels.
Clock/calendar	Adding our MX- RTC, on top of the EEPROM memory. The PLC gets real time clock/calendar. Imagine to program actions on weekends, just to give you an example.
Expansions	The Exp 4040 adds 24 Inputs / 24 outputs of 24vdc and 16 Inputs/ 16 outputs of 5vdc (Mos). The Exp 1616R, adds, 16 inputs and 16 Relay outputs.



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