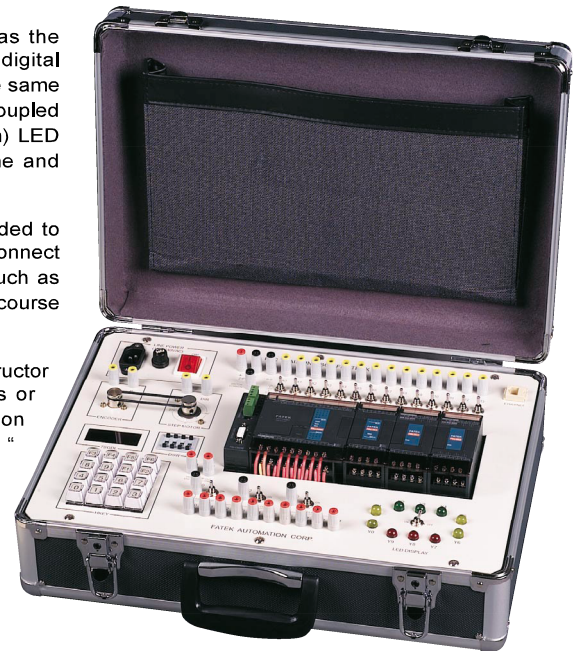## ■ Features:

● It contains the basic items required by PLC digital I/O training, such as the FBs-24MCT highly functional main unit, the FBs-CM25E Ethernet module, digital input socket, simulated switches, and digital output socket. Also included in the same kit are advanced application peripherals like encoder and stepping motor (coupled with belt for transmission), seven segment display, 10 large-diameter (10mm) LED indicators, thumbwheel switches, and keyboard. It greatly reduces the time and manpower used in wiring and resource management of teaching.

● The built-in RS232, RS485 and the Ethernet three ports (can be expanded to five with communication boards) not only enable the teacher's computer to connect with the training kits of all students to conduct networking on-line teaching such as loading, monitoring, modifying, and storing, but also can be used in advanced course such as computer connection, intelligent ASCII peripherals as well.

● A special designed software "WinProladder teaching assistant" can let instructor download or upload ladder program to or from the PLC of the whole class or individual through computer. Instructor also can perform monitoring, instruction and modification, and collect and save student's homework periodically with "WinProladder teaching assistant", The teaching software is especially suitable for examination and contest and is the best choice for network teaching.

● PLC output is isolated by the relay with socket and fuse and then output to terminal. These isolations can prevent PLC from damaging caused by incorrect wiring and easy for repair and replacement.

FBs-TBOX

Item			Description
Case			Aluminum suitcase. Dimension is 46x32x16cm. Top cover and box body can be separated.
Power supply			100~240VAC / 2A fuse / power switch with indicator
PLC			FBs-24MCT(transistor output)+FBs-CM25E(Ethernet communication module)
Programming tool	Programmer		FP-07C handheld programming panel, can develop program, monitor (optional)
	Winproladder Programming Software		Instructor site: Standard WinProladder with ' teaching assistant' utility
			Student site: Standard WinProladder
Communication interface	Built-in	Port0	RS232, Mini-Din connector
	Communication board(CB) (optional)	Port1	RS232 or RS485 selectable, directly mounted on FBs-24MCT main unit
		Port2	
	FBs-CM25E	Port3	RS232, standard DB-9F connector
		Port4	RS485, 3-pin European terminal block
		(Port4)	Ethernet 10BaseT, IEEE 802.3 standard. Use port4 to interface PLC main unit
Input interface			Banana terminal and simulation switch with automatic and manual reset functions
Output interface			Banana terminal, 10 points. Transistor output(Y0~Y9). All outputs buffer with discrete relay before come to terminal. Y0 and Y1 also provide a direct output terminal for high-speed pulse output (HSPSO) application.
Expansion module (optional)			Secured by DIN Rail, 12.5cm wide slot, can accommodate three 4cm thin modules or other modules with equivalent width
Application peripheral	Display module		4 digits 7-segment display module，attached with BCD decoding circuit
	Thumbwheel switch		4 digits BCD thumbwheel switch module
	Keyboard module		4 x 4 matrix keyboard module（Wiring coordinate with convenient instruction）
	Encoder		Power supply 24VDC、200P/R、open collector、A/B phase
	Stepping motor		CK/DIR control，200P/R
	LED display		10 of 10mmØ high-brightness LED (in red, yellow, and green), driven individually by Y0 to Y9
Number of linked stations			Maximum 254 stations (1 station for instructor, 253 stations for student)