Lab 9 - AUTOMATION & FLUID POWER



The laboratory is conceived to give the student a clear overview of the concepts involved in industrial automation. It includes a PLC automation trainer complete with a comprehensive series of industrial process simulation modules. A Pneumatic and electro pneumatic trainer, with a comprehensive set of typical components used in pneumatic control applications. The components are mounted on modules that can be installed on a panel frame or a bench for teacher demonstration and student use.

A Hydraulics trainer designed to study and experiment oleo-dynamic power and control circuits, with panels including a number of components conveniently installed and exposed for training and experimenting. Each module is provided with a user manual that explains its characteristics and use.

TRAINING STATIONS LIST

9.1	PLC PROCESS SIMULATOR
9.2	INDUSTRIAL AUTOMATION BY PLC
9.3	PNEUMATICS & ELECTRO PNEUMATICS AUTOMATION
9.4	HYDRAULICS (OLEODYNAMICS) AUTOMATION

Equipment List

LAB N°	Item N°	TITLE	CODE		Tot al Qty	Stud WS 1	Stud WS 2	Stud WS 3	Stud WS 4	Stud WS 5	Stud WS 6	Stud WS 7	Stud WS 8	Teach WS	LAB
9		PLC AUTOMATION AND FLUID POWER LABORATORY. For 16 to 32 students working at the same time. See complete catalogue to see product description and other details.													
	_	PLC AUTOMATION	D27D												
9	1 1	INDUSTRIAL AUTOMATION BY PLC PLC TRAINER (OMRON or CROUZET)	B37B	C3729 AA	4	1	1	1		1	1				
9		PLC SIMULATION PANEL	B3729D	C3729D	4	1	1			1	1				_
9		STAR-DELTA CIRCUIT	B3729H		2	1				1					
9	1 4	TRAFFIC LIGHT	B3729K	С3729К	2		1				1				
9	1 5	CONVEYOR BELT SYSTEM	B3729N		1										1
9		3-STOREY ELEVATOR CONTROL	B37290		1										1
9	1 7	WASHING MACHINE SIMULATOR	B3729W	C3729W	2	1				1					
<u>9</u> 9	2	PLC PROCESS SIMULATOR	C3730												
9		UNIVERSAL PLC SIMULATOR	C3730	C3730	4			1	1			1	1		$\overline{}$
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9															
9	3	INDUSTRIAL AUTOMATION BY PLC EXPANSION	B37U						-			-			
9		PLC TRAINER (OMRON or CROUZET)	D2720C1	C3729 AA	4	7		1	1	- 1		1	1		
9		XY POSITIONING SYSTEM ROTOR RESISTANCE STARTER CIRCUIT	B3729G1 B3729I		2	1				1					
9		DAHLANDER CIRCUIT	B3729J	C3729J	2	1				1					_
9		PARKING LOT	B3729L	C37233	2	1				1					_
9		SILO SYSTEM	B3729M		2	1				1					-
9		TANK LEVEL CONTROL	B3729Q	C3729Q	2		1				1				\neg
9	3 8	REACTOR VESSEL CONTROL	B3729R		2		1				1				
9	3 9	MIXER	B3729S		2		1				1				
9		RUNNING LIGHT SYSTEM	B3729T		2		1				1				
9	3 11	ANTENNA POSITIONING SYSTEM	B3729Y		2		1				1				
9	4	FUZZY LOGIC	B3732												
9		PID/FUZZY LOGIC PROCESS CONTROLLER	B3732 PLC		1										1
9		FLAME (BRIGHTNESS) CONTROL SYSTEM SIMULATOR	B3732A		1										1
9		OVEN (TEMPERATURE) CONTROL SYSTEM SIMULATOR	B3732B		1										1
9		PRESSURE CONTROL SYSTEM SIMULATOR	B3732C		1										1
9	4 5	INPUT/OUTPUT KIT	B3732 IOK	<u> </u>	1										1
9															
9		PNEUMATICS & HYDRAULICS AUTOMATION													
9		PNEUMATICS & ELECTRO PNEUMATICS AUTOMATION	B38P												
9		PNEUMATICSTRAINER	B38P		4	1	1			1	1				
9		ELECTROPNEUMATICS TRAINER	B38E		4			1	1			1	1		
9		SILENT COMPRESSOR	B38C		4	1		1		1		1			
9	5	HYDRAULICS AUTOMATION	B39						_						
9		HYDRAULICSTRAINER	B39		1										1
FM		FURNITURE						•							
	1 1		E11104		_	7	1	7	1	1	7	1 1	1 1	1	
FM		WORK TABLE MOBILE LOWER CABINET	F1110A F114146		8	1	1	1	1	1	1	1	1	 	$\vdash \vdash$
FM		STUDENT STOOL	F11 4146 F11 1718		24	3	3	3	3	3	3	3	3		$\vdash\vdash$
FM		TEACHER'S DESK	F11 2126		1	,	,	,		,	,	,	,	1	
FM		TEACHER'S CHAIR	F11 5000		1						<u> </u>			1	\vdash
FM		CABINET FOR TOOLS & INSTRUMENTS	F11 3310		4		<u> </u>		<u> </u>	<u> </u>				Ť	4
FM		TROLLEY	F1151 R1		4										4
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