water plant



Tanta University, faculty of engineering Computer & Automatic Control Department



Supervision of Assoc. Prof. Dr\ Mohammad Arafa Al-Badry

Project name Water treatment plant automation using PLC and SCADA

Place of installation / Tanta University, Computers & Automatic Control Department

Implemenation of / Mohamed Adel Darwish

Abanoub Ashraf Labib

Abdallah Mohamed Abd El-Razik

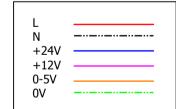
Tasbih Ahmed Attia Mostafa Esmail Arafat

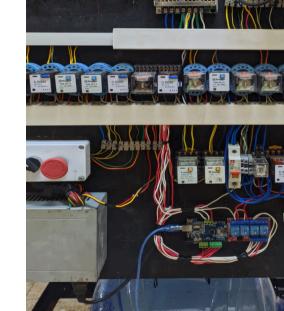
Power source / 220VAC , 50HZ L,N

Control voltage / 220VAC , 50HZ / 24Vdc , 12Vdc , 5Vdc / 2 power supplies

Last EPLAN version used / 2.9.4

Potential color definition legend





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Number of pages

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Project Name / Location

Graduation project / Tanta university

Project description

Water treatment plant automation using PLC and SCADA

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Assoc. Prof. Dr\ Mohammad Arafa Al-Badry

Mohamed Adel Darwish Abanoub Ashraf Labib odallah Mohamed Abd El-Razik Tasbih Ahmed Attia Mostafa Esmail Arafat

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	Symbol overview	mbol overview IEC_symbol F25_001							
				7			2002		
Н	1 S	20029	93 PA	20029 1 ¹	1151 TISPQ		11	3	
	NO contact		Measuring instrument, with current display, ampmeter	A		nsducer, ideal voltage source			
В	NO auxiliary contact	12 20029	Measuring instrument, 2 connection points	20029	Measuring tran	nsducer, variable	12 2002	1 4 9 20029	В
	20		98		1204			20029	
	K	20029	FA1	200 1		Makes (for			
c	Electromechanical operating device, general / relay coil, general	2 20029	Circuit breaker, single-pole	2			1	~)	С
	Coil for power contactor		Circuit breaker		Single-coil mot	tor without PE		2 20029	
	35		138	20029 1	²⁰⁰²⁹ 3 1352				\vdash
	SSD	20029 L	SSLRX	* + -	X2_2				
D	Pressure switch, NO contact	E \ 2 20029	Photoelectric switch, NO contact, with plug-in connection	<u></u>	Terminal with	2 connection points (1 x graphical line)			D
	Pushbutton, NO contact	20029	Light barrier, NO contact with power supply	12 20029	Terminal, gene	eral, with saddle jumper, 2 connection poir	nts		
H	36		169		1411			_	\mathbb{H}
	SOD	20029 L <mark>1</mark> .	SSNOT1	20029	V4 D				
E	Pressure switch, NC contact	E/ ₂	Emergency stop switch / Emergency stop pushbutton, NO con	tact $\left(\right)_{2}^{1}$	Terminal with connections	one connection point and 2 saddle jumper			E
	Pushbutton, NC contact	20029	Pushbutton, NO contact	20029	Terminal, gene	eral, with saddle jumper, 1 connection poir	nt		
	45		170		1413				
	Y1	20029	SONOT1	20029 1 tact	X2_NB				
F	Solenoid valve, general	20029	Emergency stop switch / Emergency stop pushbutton, NC conf	tact (+/ 	connections	2 connection points without saddle jumper			F
	Valve, single	20029	Pushbutton, NC contact	20029	Terminal, gene	eral, 2 connection points			
	46		283	-					
	н	20029 	HSI	20 1),29				
G	Lamp / indicator light, general	20029	Siren	\leftarrow					G
	Lamp, single	20029	Signal device, acoustic, single	2 20	029				
	56	20029 20029	313	20029					
н	G22		EH2						н
	Rectifier, single-phase	==	Fluorescent lamp without PE	X					
	Rectifier, variable	1 ₂ 1 ₄ 20029	Light, 2 connection points	T ₂ 20029					
	92	20020	1150	20029 20 11 13)29				
I	PV	20029	TISTQ						I
	Measuring instrument, with voltage display / voltmeter	V	Measuring transducer, ideal current source	I					
\square	Measuring instrument, 2 connection points	2 20029	Measuring transducer, variable	2 2 20029 20	129				H
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