





## **BIDANG LOMBA**

Sistim Kendali Industri (Industrial Control)

### MERDEKA BERPRESTASI Talenta Vokasi Menginspirasi



## Test Project Industrial Control

WSC2022SE\_TP19\_M1\_professional\_practice\_actual\_en



## **Industrial Control**

Professional Practice – Main Project

Topic / Criterion	Good / OK	Bad / Not OK
<b>PP_1</b> Device – Wire length		
<b>PP_2</b> Device - Cable sheath	2-8mm	
<b>PP_3</b> Control box - cable sheath	Som Sm Sm	
<b>PP_4</b> Wiring - Control box		



<b>PP_5</b> Wire connecting	Copper visible but no more than 2mm outside	
<b>PP_6</b> Wire not used	With Heat shrink	
<b>PP_7</b> Mesh tray - cable separation	Separated on three groups. Which one on which side is competitor's choice. Cables should aligned and be fixed to the mesh tray with cable ties each 200mm Only can exits crossing of cables when in or leaving the mesh tray.	
<b>PP_8</b> Cable straight	Cables should aligned and be fixed with cable ties as it enters on the mesh tray	
PP_9 Duct cut	Maximum aperture = Thickness of a credit card.	



<b>PP_10</b> Duct cable holes Hole < 2xCable(s) diameter		
<b>PP_11</b> VSD cable shield		
<b>PP_12</b> Cable tray end an angle	Máx 10mm           Image: Imag	
<b>PP_13</b> Shield		







	Good Practices on Measuremen	t Assesment.
Level Standard	ОК	Not OK
Level control Air bubble can't touch on the lines		
Housing	<ul> <li>Set the level close to the wall</li> <li>Set the level to flat side</li> </ul>	. Gap from the wall . Uneven side
Limit Swich	. Set the level close to the wall	. Gap from the wall
Motor	. Measure on the base plate	. No other parts of motor



Control Box	. Set the level close to the wall	. Gap from the wall
Mesh tray	<ul> <li>Set the level close to the wall</li> <li>Set with angle</li> </ul>	. Gap from the wall
Wall ducts	. Set the level close to the wall	. Gap from the wall
Pipe	. Set the level close to the wall . Set with angle	. Gap from the wall



ET200eco	. Set the level close to the wall . Set the level to flat side	<ul> <li>Gap from the wall</li> <li>Uneven side</li> </ul>
Earth terminal	<ul> <li>Set the level close to the wall</li> <li>Measure the base</li> </ul>	. Measure the cover
Nacarat		
Standard	ОК	Not OK



Housing		
Motor	. Measure on the motor base plate	. No other parts of motor
Control Box		. Gap from the wall
Mesh tray	<ul> <li>Set with angle</li> <li>Set with angle</li> <li>Set with angle</li> </ul>	



ET200eco       Image: Comparison of the second	Pipe (Clip)	. No switch ring until end of C1         Image: Constraint of the second secon	
Earth Terminal	ET200eco		
	Earth Terminal		
HMI	HMI	. Door line	







# **Test Project**

Industrial Control

Module A - Main Project

Submitted by: Lodi Joyo Siswanto

LKSN2023\_TP19\_M1\_introduction\_Pre\_en



## Module A – Main Project

With the attached mounting layout and its electrical diagrams it is intended to simulate the operation of the following production machine.



### Legend:

- MA1: Belt 2 motor
- MA2: Belt 1 motor
- MA3: Vertical movement motor
- MA4: Drilling motor
- MB1: Valve/Cylinder
- MB2: Valve/Cylinder
- MB3: Valve/Cylinder
- MB4: Kleaning Product Valve
- E1: Heating Resistance
- R1: Temperature sensor

### R2: Belt 1 Position

- S11: MA3 Platform UP
- S12: MA3 Platform DOWN
- S13: MB2 Cylinder is UP
- S14: MB2 Cylinder is DOWN
- S15: Sensor Pieces available
- **S16**: Belt 2 Left position switch
- S17: Belt 2 Middle position switch
- **S18**: Belt 2 Right position switch
- S19: Sensor Pieces available



$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<ul> <li>Mesh tray horizontal</li> <li>Mesh tray vertical</li> <li>Protective earth terminal (X4)</li> <li>Plastic tube VR20</li> <li>Plastic tube VR20</li> <li>Plastic tube VR20</li> <li>Plastic tube VR20</li> <li>Control Box (600x800)</li> <li>Duct 40x40mm</li> <li>Motor MA4</li> <li>Heater E1</li> <li>Wall Brackets</li> <li>Housing (P10, P11, P12, P13)</li> <li>Housing (S13, MB2)</li> <li>Limit switch (S15)</li> <li>Housing (MA4, MB1)</li> <li>Metal pipe ISO 20</li> <li>Metal pipe ISO 20</li> <li>Limit switch (S16)</li> <li>Limit switch (S17)</li> <li>Limit switch (S18)</li> </ul>

### WALL INSTALLATION NOT ALL IN SCALE

	<sup>Skill:</sup> 19	) – Industrial	Control				
	Design by: L	odi Joyo Siswa	anto				
Worldskie BALI - 2023	Last Update: 1	7/02/2023	Scale:	Paper: A3	Page:	1	/ 13
	Drawing Number	LKSN_2023_	_TP19PT	MODULE	1		Rev:
Test Project for the LKS NASIONAL 2023 Copyright @TutorialPLC 2023	Description:	LAYOUT					Projection:
All Rights Reserved							

10

9























1 2 3 4 5 6 7								
	1	2	3	4	5	6	7	8









	-x4	Colors leg BN = brov WH = whi BU = blue BK = blac GN/YE = g	jend: vn te k green/yellow
for the AL 2023	Control Box 1	rol Box 1 Date: 17-02-2023	
eserved	Draw by: Lodi Joyo S	Scale: _/_	Pages: 4/13

control box 1 - panel
 Mesh Tray Vertical
 Mesh Tray Horizontal
 -T2/PE













for the NL 2023 rialPLC 2023 eserved	Control Box 1	Date: 17-02-2023	Page: 7	
	Draw by: Lodi Joyo S	Scale: _/_	Pages: 7/13	





Colors legend: BN = brown WH = white BU = blue BK = black GN/YE = green/yellow

for the L 2023 ialPLC 2023 served	Control Box 1	Date: 17-02-2023	Page: 8
	Draw by: Lodi Joyo S	Scale: _/_	Pages: 8/13





9		10	
OMRON	 		
Bit 15			

15

Colors legend: BN = brown WH = white BU = blue BK = black GN/YE = green/yellow

for the NL 2023 ialPLC 2023 eserved	Control Box 1	Date: 17-02-2023	Page: 9
	Draw by: Lodi Joyo S	Scale: _/_	Pages: 9/13



Test Project f LKS NASIONAI Copyright ©Tutori All Rights Res



-T1 VSD

1	2	3	4	5	6	7	

	-	

9

8

for the AL 2023 rialPLC 2023 eserved	Network Layout	Date: 17-02-2023	Page: 10
	Draw by: Lodi Joyo S	Scale: _/_	Pages: 10/13

10



1	2	3	4	5
	swi Made in	tch-ring short plastic, nylon	(B ) or teflon	
	LKS Nasional BALI - 2023	Test Project for the LKS NASIONAL 2023 Copyright ©2023 WorldSkills Indonesia All Rights Reserved	Switch Ring Do 17–02 Draw by: Sc Lodi Joyo S –,	Ite: 

1	2	3	4	5
		R6	Motor Piece	
wo	LKS Nasional dskills   BALI - 2023	Copyright ©2023 WorldSkills Indonesia All Rights Reserved	Draw by: Sc Lodi Joyo S _/	-2023 + age: + ale: Pages: /_ 1/1

## **PLC - INPUTS**

<u>IN</u>	<u>PUT</u>	ADDRESS	SYMBOL	FUNCTION	
I	0		Q11	MASTER ON	
Ι	1		S11	MA3 Platform UP	
I	2		S12	MA3 Platform UP	
I	3		S13	MB2 Cylinder is UP	
Ι	4				
Ι	5		S15	Sensor Pieces available	
Ι	6		S16	Belt 2 – Left position switch	
Ι	7		S17	Belt 2 – Middle position switch	
Ι	8		S18	Belt 2 – Right position switch	
Ι	9		S19	Sensor Pieces available	
Ι	10				
Ι	11		SS LEFT	Manual Mode	
Ι	12				
I	13		SS RIGHT	Auto Mode	
I	14				
Ι	15		T1 MB	Inverter Signal	
LKS	NATIONA	L_2022_MP_AC <sup>-</sup>	r	TR	ADE 19
INDUSTRIAL - CONTROL		CONTROL	PLC - I	NPUTS	PAGE 12

## PLC - OUTPUTS

<u>00</u>	<u>TPUT</u>	ADDRESS	<u>COLOR</u>	<u>SYMBOL</u>	<b>FUNCTION</b>	
Q	0					
Q	1		GREEN	MB1	Valve/Cylinder	
Q	2		GREEN	MB2	Valve/Cylinder	
Q	3					
Q	4		GREEN	MB4	Valve/Cylinder	
Q	5		YELLOW	MA2	Belt 1 motor	
Q	6			-T1 S1	Signal For Inverter	
Q	7			-T1 S2	Signal For Inverter	
Q	8			Q21		
Q	9			Q22	MA3 CW	
Q	10			Q23	MA3 CCW	
Q	11		GREEN	P10		
Q	12		YELLOW	P11		
Q	13		RED	P12		
Q	14		BUZZER	P13		
Q	15					
LKS	NATIONA	L_2022_MP_A	СТ		TR	ADE 19
INDUSTRIAL - CONTROL				PLC - O	UTPUTS	PAGE 13



### SAFETY REPORT – COMMISSIONING

### Competitor

Name /	Country co	ode				Booth No.:		
1.	Visual Ir	nspec	tion (mark with <b>v</b> )					
	Control box 1			(Complete, all	(Complete, all ducts closed and all equipment's identified)			
	Control b	box 2		(Complete, all	ducts close	ed and all equip	ment's ident	tified)
	Protectiv	ve ear	th terminal	(all metal cabl and doors cor	e tray conn nected to t	ected to X4,and he earth)	d control bo>	kes panel, side wall
	Plant Ins	tallati	on	All devices and	d housings f	fixed and all eq	uipment's id	entified
	Power Su	upply	OFF	Power socket	(-X0) is disc	connect (OFF)		
2.	Low Imp	edan	ce Testing					
Prepara	tion for tes	sting	ightarrow Equipment low im	npedance test val	ue:			Ω
Cont	rol Box 1				Contro	l Box 2		
- X0	/ PE	>	-X1/PE	Ω	- X0 / PE	>	-X3/PE	Ω
- X0	/ PE	>	Panel	Ω	- X0 / PE	>	Panel	Ω
- X0	/ PE	>	Side Wall	Ω	- X0 / PE	>	Side Wall	Ω
- X0	/ PE	>	Door	Ω	- X0 / PE	>	Door	Ω
- X0	/ PE	>	T2 Metal Frame	Ω				
- X0	/ PE	>	VSD Metal Frame	Ω				
Wall	Installati	on:						
- X0	/ PE	>	- X4				Ω	
- X0	/ PE	>	Horizontal Metal Cable	e Tray			Ω	
- X0	/ PE	>	Vertical Metal Cable Tr	ау			Ω	
- X0	/ PE	>	Motor MA1 Frame				Ω	
- X0	/ PE	>	Motor MA2 Frame				Ω	
<b>3. Pow</b>	er and Co mpetitor i	mmis nust	sioning Allowed onl wear safety glasses, lo	ly in the present	<mark>ce of an ex</mark> insulation	<b>(pert group</b> gloves during	g testing an	d voltage test.
3.1 - T	esting: Re	sidua	l Current Device (RCD	) by Test Buttor	1	0	<u> </u>	
	Function	OK			D Fu	unction Not C	νK	
Turn OF	F: -Q1 / -F	1/-Q	2 / -Q3 / -F2 / - F3, on th	e Control Box 1				
Plug in I	Power Sock	et (X	D)					
Turn Po	I urn Power ON, on the distribution cabinet							
5.2 - V		asur		2300 /4000	±10%			
- ,	$\times 1 / 12$		> - X1/N	v	,			
- 2	лт / L2 X1 / L3		> - X1 / N	v	,			
- 2	, X1/L1		> - X1/L2	V	,			
- 2	X1/L1		> - X1 / L3	V	,			



- X	(1/L2	>	- X1 / L3	V			
3.3 – E	mergency Fu	nction:					
Turn ON	Turn ON: -Q1 / -F1 / -Q2 / -Q3 / -F2 / - F3 / -F4 and -A1 on the Control Box 1						
	Press S2 $\rightarrow$	<b>-Q11</b> and -	-Q12 turns ON		Press S1_A / S1_B → -Q11 and -Q12 turns OFF		
For the accuracy							

Signature by Competitor	Signature by Expert	Signature by Expert	Signature by Expert
Date: / /	C.C	C.C	C.C



# Test Project

## Industrial Control

Module B - Programming

Submitted by: Lodi Joyo Siswanto

LKSN2023\_TP19\_M2\_introduction\_Pre\_en



## **Module B – Programming**



On this projects intended to simulate the operation of the following production machine:

#### Legend:

- MA1: Belt 2 motor
- MA2: Belt 1 motor
- MA3: Vertical movement motor
- MA4: Drilling motor
- MB1: Valve/Cylinder
- MB2: Valve/Cylinder
- MB3: Valve/Cylinder
- **MB4:** Cleaning Product Valve
- E1: Heating Resistance
- R1: Temperature sensor

- R2: Belt 1 Position
- S11: MA3 Platform UP
- S12: MA3 Platform DOWN
- S13: MB2 Cylinder is UP
- S14: MB2 Cylinder is DOWN
- **S15:** Sensor Pieces available
- S16: Belt 2 Left position switch
- S17: Belt 2 Middle position switch
- S18: Belt 2 Right position switch
- S19: Sensor Pieces available



### HMI – Screen "MANUAL"



### HMI – Screen "AUTOMATIC"





### VSD

The changes in speed and the 0-speed will be reached in 1 second. The ramps must be programmed in the variable speed device (VSD).





### **PLC Inputs/Outputs**

SYMBOL	TYPE	COMMENT	
EMERG STOP	BOOL	PLC - Input (-K3)	
S15	BOOL	PLC - Input (-K3)	
ERROR	BOOL	PLC - Input (-K3 Bit 2)	
MB1	BOOL	PLC - Output (-K3	
MB2	BOOL	PLC - Output (-K3	
MB3	BOOL	PLC - Output (-K3	
P4	BOOL	PLC - Output (-K3	
P5	BOOL	PLC - Output (-K3	
MA1_RIGHT (Q13)	BOOL	PLC - Output (-K3)	
MA1_LEFT (Q14)	BOOL	PLC - Output (-K3)	
E1_OUT (T2_A1)	BOOL	PLC - Output (-K3) Output configured as PWM output (base frequency 15Hz)	
R1 (K2:AI_CH0)	INT	PLC - Analog Input (-K2)	
K2:AO_CH0	INT	PLC - Analog Output (-K2)	
S11	BOOL	ET200SP - Input (-K6)	
S12	BOOL	ET200SP - Input (-K6)	
S13	BOOL	ET200SP - Input (-K6)	
S14	BOOL	ET200SP - Input (-K6)	
P10	BOOL	ET200SP - Output (-K7)	
P11	BOOL	ET200SP - Output (-K7)	
P12	BOOL	ET200SP - Output (-K7)	
P13	BOOL	ET200SP - Output (-K7)	
R2 (K8:AI-U_CH0)	INT	ET200SP - Input (-K8)	
K9:AQ-U_CH0	INT	ET200SP - Output (-K9)	
MA3_UP (Q15)	BOOL	ET200SP - IO-Link/Input (-K10)	
MA3_DOWN (Q16)	BOOL	ET200SP - IO-Link/Input (-K10)	
S5	BOOL	Sirius Act Module- Input (-A5)	
S4	BOOL	Sirius Act Module - Input (-A5)	
S3_L	BOOL	Sirius Act Module - Input (-A5)	
S3 R	BOOL	Sirius Act Module - Input (-A5)	
P1	BOOL	Sirius Act Module - Output (-A5)	
P2	BOOL	Sirius Act Module - Output (-A5)	
S16	BOOL	ET200Eco - Input (-A6)	
S17	BOOL	ET200Eco - Input (-A6)	
S18	BOOL	ET200Eco - Input (-A6)	
S19	BOOL	ET200Eco - Input (-A6)	
MB4	BOOL	ET200Eco - Output (-A6)	

worldskills

MA2 SPEED	REAL	VSD (by Profinet) (-T1)
MA2_RIGHT	BOOL	VSD (by Profinet) (-T1)
MA2_LEFT	BOOL	VSD (by Profinet) (-T1)

### **Control HMI/PLC Variables**

SYMBOL	ТҮРЕ	COMMENT
AUTOMATIC	BOOL	PLC-Variable
MANUAL	BOOL	PLC-Variable
MANUAL_ON_SW	BOOL	PLC-Variable
MANUAL_OFF_SW	BOOL	PLC-Variable
AUTOMATIC_ON_SW	BOOL	PLC-Variable
AUTOMATIC OFF SW	BOOL	PLC-Variable
CODE	INT	PLC-Variable
LOW_TEMP	BOOL	PLC-Variable
E1_ON	BOOL	PLC-Variable
SETPOINT	INT	PLC-Variable
HYSTERESIS	INT	PLC-Variable
TEMPERATURE	INT	PLC-Variable
POINT_ON	INT	PLC-Variable
POINT_OFF	INT	PLC-Variable
MA2_SW_R	BOOL	PLC-Variable
MA2_STOP	BOOL	PLC-Variable
MA2 SW L	BOOL	PLC-Variable
MA2_SPEED_HMI	BOOL	PLC-Variable
MB1_SW	BOOL	PLC-Variable
MB2_SW	BOOL	PLC-Variable
MB3_SW	BOOL	PLC-Variable
MB4_SW	BOOL	PLC-Variable
BELT_POSITION	INT	PLC-Variable
BELT POSITION ACTUAL	INT	PLC-Variable
E1_START	BOOL	PLC-Variable
E1_STOP	BOOL	PLC-Variable
E1_SETPOINT	INT	PLC-Variable
MA3_UP_SW	BOOL	PLC-Variable
MA3_DOWN_SW	BOOL	PLC-Variable
MA4	BOOL	PLC-Variable
MA4_ON_SW	BOOL	PLC-Variable
MA4_OFF_SW	BOOL	PLC-Variable
START_SW	BOOL	PLC-Variable
STOP_SW	BOOL	PLC-Variable



PROG_A_SW	BOOL	PLC-Variable
PROG_A	BOOL	PLC-Variable
PROG_B_SW	BOOL	PLC-Variable
PROG_B	BOOL	PLC-Variable
PROG C SW	BOOL	PLC-Variable
PROG_C	BOOL	PLC-Variable
RESET_SW	BOOL	PLC-Variable
CYCLE_ACTIVE	BOOL	PLC-Variable
STEP	INT	PLC-Variable
PAUSE	BOOL	PLC-Variable
PART_B_SW	BOOL	PLC-Variable
START AUT	BOOL	PLC-Variable

### **Activate Screens**

POSITION/PICTURE	VARIABLE	ACTION	COMMENT
SCREEN >>>		Button Event	Activate Screen "AUTOMATIC"
<<< SCREEN		Button Event	Activate Screen "MANUAL"

### **Details: Screen MANUAL/AUTOMATIC**



EM		ROR LOW TEMP.	EMPTY STORAGE	
POSITION	VARIABLE	ACTION	COMMENT	
0	MANUAL	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
1	MANUAL_ON_SW	Button Event	Set Bit while Key pressed	
2	MANUAL_OFF_SW	Button Event	Set Bit while Key pressed	
3	AUTOMATIC	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
4 AUTOMATIC_ON_SW		Button Event	Set Bit while Key pressed	
5	AUTOMATIC_OFF_SW	Button Event	Set Bit while Key pressed	



6	CODE	Input/output field	Range: 0 to 9999
7	EMERG_STOP	Text field Visibility	State "0 " = Visible State "1" = Invisible
8	ERROR	Text field Visibility	State "1" = Visible State "0" = Invisible
9	LOW_TEMP	Text field Visibility	State "1 " = Visible State "0" = Invisible
10	S15	Text field Visibility	State "0 " = Visible State "1" = Invisible



POSITION	VARIABLE	ACTION	COMMENT	
11	S15	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
12	MA2_LEFT	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
13	MA2_RIGHT	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
14	MA2_SPEED	Output field	Range: 25 to 100%	
15	E1_ON	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
16	MB1	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN	
17	MB2	Background Control Colour	State "0 " = colour = GRAY	



			State "1 " = colour = GREEN
18	S13	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
19	S14	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
20	MA4	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
21	MA3_UP	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
22	MA3_DOWN	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
23	S11	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
24	S12	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
25	BELT_POSITION	Output field	Range: 0 to 20
26	S19	Text field Visibility	State "0 " = Visible State "1" = Invisible
27	MB3	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
28	MB4	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
29	S16	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
30	S17	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
31	S18	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
32	MA1_LEFT	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN
33	MA1_RIGHT	Background Control Colour	State "0" = colour = GRAY State "1" = colour = GREEN

<b>PICTURE / POSITION</b>		VARIABLE	ACTION	COMMENT
	34	MA2_SW_R	Button Event	Set Bit while Key pressed
	35	MA2_STOP	Button Event	Set Bit while Key pressed
	36	MA2_SW_L	Button Event	Set Bit while Key pressed
37		MA2_SPEED_HMI	Input/Output field	Range: 0 to 100%
	38	MB1_SW	Button Event	Set Bit while Key pressed
	39	MB3_SW	Button Event	Set Bit while Key pressed
	40	MB2_SW	Button Event	Set Bit while Key pressed
	41	MB4_SW	Button Event	Set Bit while Key pressed



MA2	42	E1_START	Button Event	Set Bit while Key pressed
34 >> SPEED	43	E1_STOP	Button Event	Set Bit while Key pressed
35 37	44	SETPOINT	Input/Output field	Range: 50 to 120°C
	45	MA3_UP_SW	Button Event	Set Bit while Key pressed
36 << %	46	MA3_DOWN_SW	Button Event	Set Bit while Key pressed
	47	MA4_ON_SW	Button Event	Set Bit while Key pressed
WALVES         38         MB1       MB2         39       MB3         40         39       MB3         41         42       HEATING - E1         43       STARI         510P         44         600         000       0c         45       MA3         46       UP         DOWN         47       MA4         48       ON         ON       OFF	48	MA4_OFF_SW	Button Event	Set Bit while Key pressed

	<b>PICTURE / POSITION</b>		VARIABLE	ACTION	COMMENT
AUTOMATIC	49	START_SW	Button Event	Set Bit while Key pressed	
	49 50	50	STOP_SW	Button Event	Set Bit while Key pressed
	START STOP	51	STEP	Output Field	Range: 0 to 40
		52	PROG_A_SW	Button Event	Set Bit while Key pressed
	5TEP 000 51		PROG_A	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
	PROGRAM	53	PROG_B_SW	Button Event	Set Bit while Key pressed
52         53         54         55           A         B         C         RSET		PROG_B	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN	
		54	PROG_C_SW	Button Event	Set Bit while Key pressed
			PROG_C	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN



	55	RESET_SW	Button Event	Set Bit while Key pressed
MB3 M64	56	PART_B_SW	Switch Event	Switch ON / Switch OFF
MA1 516 517 518 0 Switch 56	57	TEMPERATURE	Output Field	Range: 0 to 150°C
100 80 60 50 57 20 4				
58				
MA2	BELT F			

POSITION	VARIABLE	ACTION	COMMENT
58	BELT_POSITION	Horizontal movement	Start value = 0 End value = 20













PLC Function
description
Page: 6/8

Page 7; Mode\_Auto





