

## Main program:WaterPump

Local bits / Local registers

Component    Read    Write

Used component by instruction(R/W)

Component comments

File	PGB\WaterPump	Project name	Water Pump PoC (AquaLink Project)		<a href="http://en.haiwell.com/">http://en.haiwell.com/</a> iamen Haiwell Technology Co., Ltd
Designer	Fabio	User name	Fábio Pereira		
Date	06/02/2022 20:28:25	Company			

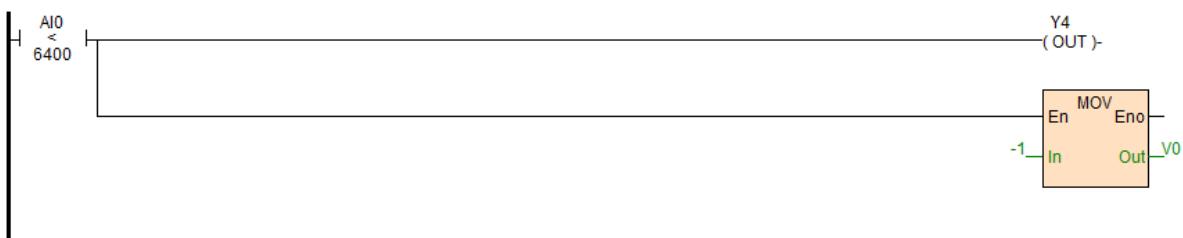
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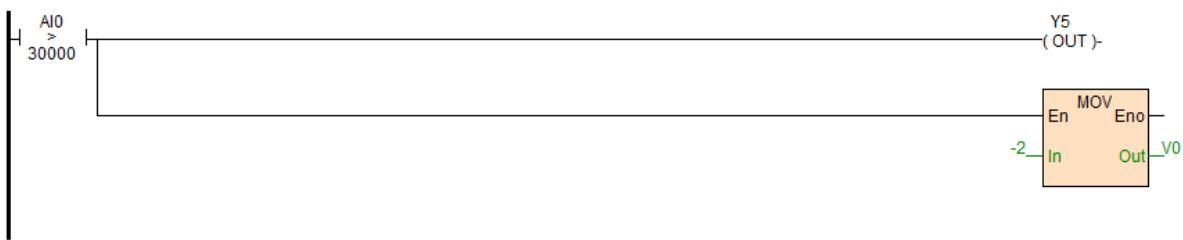
//Network 1 Real time. System startup



//Network 2 Secure lock. Avoid Water reservoir overflow or pressure meter malfunction



//Network 3 Checks water reservour overflow



//Network 4 Indicators test and Breaker control Step 1



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//Network 5 Indicators test and Breaker control Step 2



//Network 6 Indicators test and Breaker control Step 3

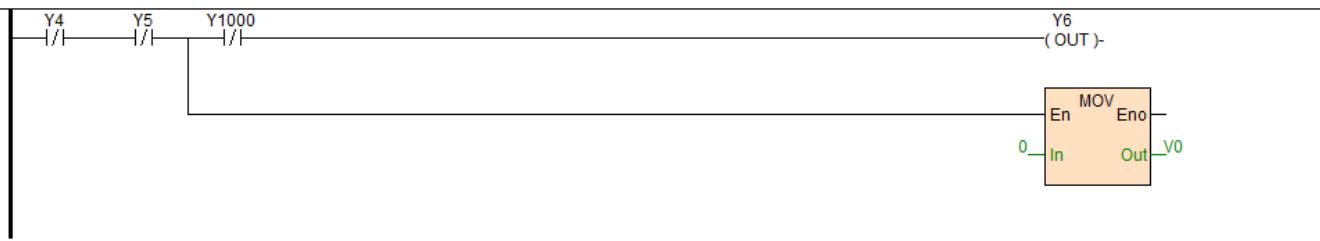


//Network 7 Indicators test and Breaker control Step 4

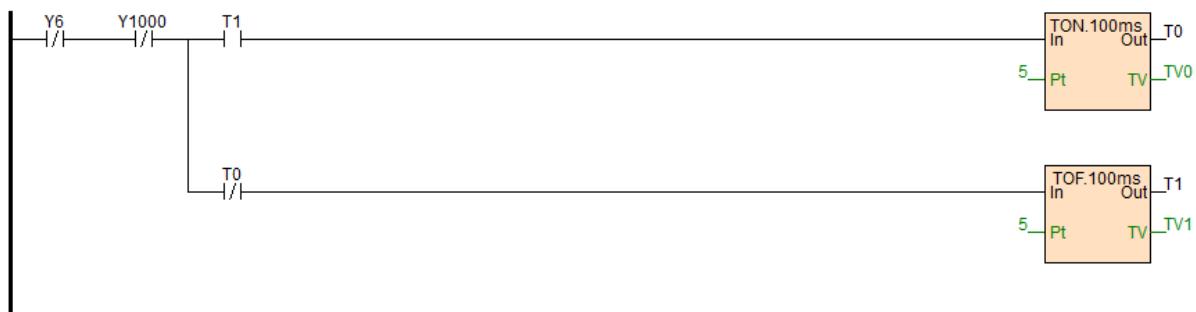


//Network 8 Secure locker. Avoid system turn ON when anomaly detected

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//Network 9 HMI anomaly indicator. Y0 will blink when anomaly detected. Error code stored in V0 to be read by user

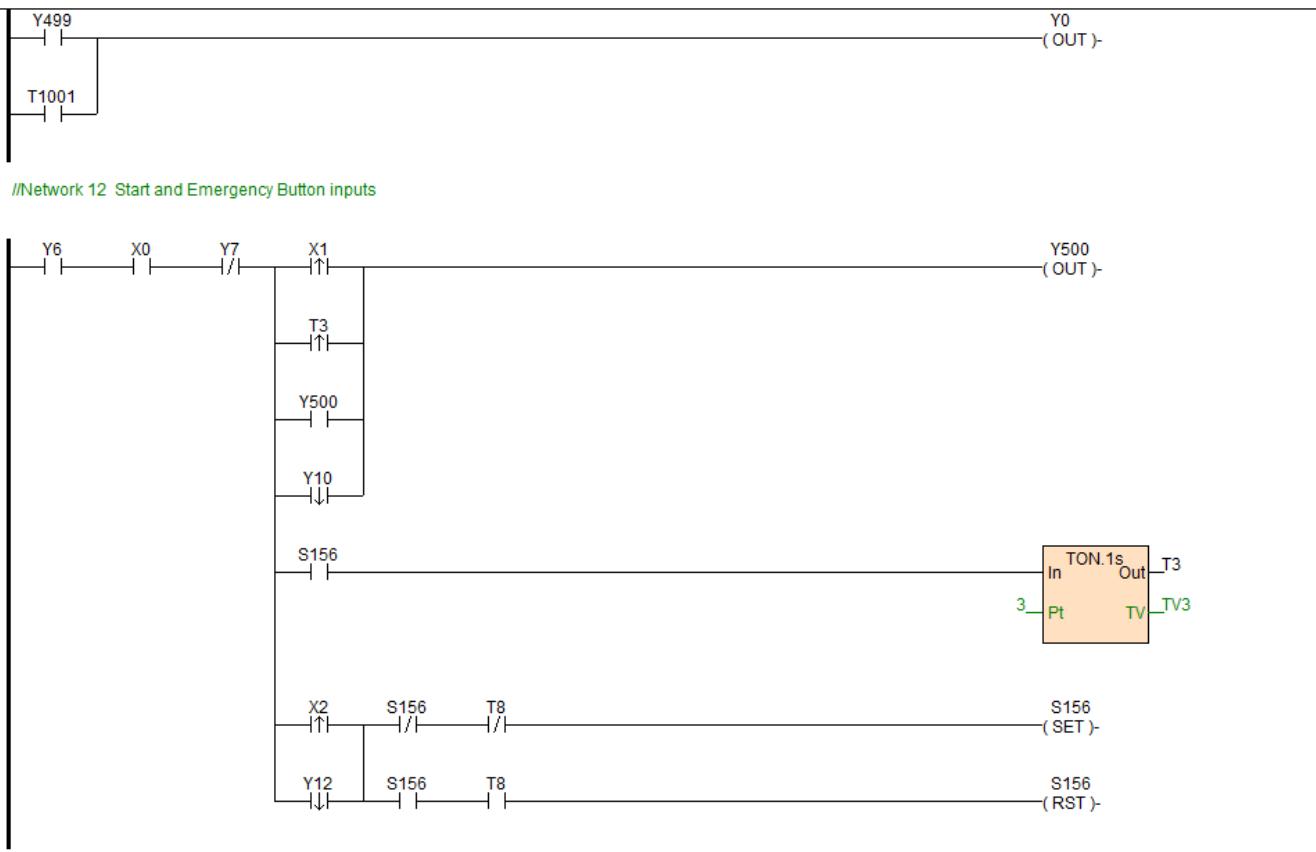


//Network 10 HMI Anomaly indicator: Blink if abnormal. ON if normal



//Network 11 HMI Anomaly indicator: Blink if abnormal. ON if normal (Auxiliary)

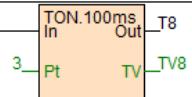
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//Network 13 Start and Emergency Button inputs (Auxiliary)

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S156



//Network 14 Start and Emergency Button inputs (Auxiliary)

T1001

S156

Y2  
(OUT)-

//Network 15 Start and Emergency Button inputs (Auxiliary)

Y500

T1001

Y1  
(OUT)-

//Network 16 Water pump controller reservoir level checker. Controls ON/OFF basend on HMI inputs/error code locker/water sensor/solar incidence

Y500

AI0

<  
24600Y8  
(OUT)-

AI0

>  
29000Y9  
(OUT)-

Y8

Y9

Y501  
(OUT)-

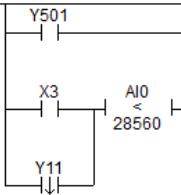
File	PGB\WaterPump	Project name	Water Pump PoC (AquaLink Project)
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//Network 17 Water pump controller reservoir level checker. Controls ON/OFF basend on HMI inputs/error code locker/water sensor/solar incidence (Auxiliary)



//Network 18 Real time system 32 bit timer startup



//Network 19 Reset ready system timer

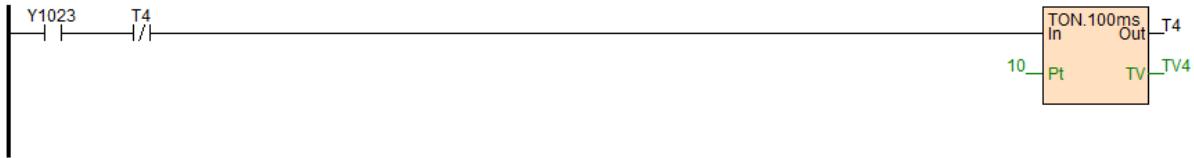


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//Network 20



//Network 21 Real time pulser



//Network 22 System on timer on, ready timer and water pump timer



//Network 23



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//Network 24



//Network 25 Breaker startup



//Network 26



//Network 27

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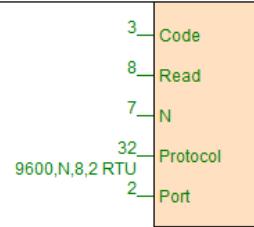
//Network 28 Data. Y1022 Data complete status



//Network 29



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//Network 30



//Network 31 Command attribute: Remote emergency reset



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//Network 32 Command attribute: Remote ready



//Network 33 Turn on pump remote



//Network 34 Toggle automatic mode



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## Hardware configuration

Index	Module type	X Component	Y Component	AI Component	AQ Component	Other
0	AC12M0T/P	X0 - X3	Y0 - Y3	AI0 - AI1	AQ0 - AQ1	COM1-2
Index	Description					
0	CPU module 4*DI 4*DO transistor 2*AI analog input 2*AO analog output DC24V power LAN + RS485					

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