Project : Multi_IO

Version : 1.36

Comments : Universal IO functionality for the multi-16 PLC

Physical connections

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Measurements

60,61	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
62,63	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
64,65	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
66,67	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
68,69	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
70,71	Digital Indication / Temperature measurement (NTC10) / Resistance (Ohm) / 10k Potentiometer
72,73	Voltage measurement (0-100%)
74,75	Voltage measurement (0-100%)

0..10V outputs

80,81	AO1 output (0-100%)
82,83	AO2 output (0-100%)
84,85	AO3 output (0-100%)
86,87	AO4 output (0-100%)

Relays

1,2,3	Relay 1 (NC, NC, COMMON)
4,5,6	Relay 2 (NC, NC, COMMON)
7,8,9	Relay 3 (NC, NC, COMMON)
10,11,12	Relay 4 (NC, NC, COMMON)

Modbus Registers

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Reg8	Potentiometer AI1 (-100% - 100%)
Reg9	Potentiometer AI2 (-100% - 100%)
Reg10	Potentiometer AI3 (-100% - 100%)
Reg11	Potentiometer AI4 (-100% - 100%)
Reg12	Potentiometer AI5 (-100% - 100%)
Reg13	Potentiometer AI6 (-100% - 100%)
Reg14	Resistance AI1 (Ohm)
Reg15	Resistance AI2 (Ohm)
Reg16	Resistance AI3 (Ohm)
Reg17	Resistance AI4 (Ohm)
Reg18	Resistance AI5 (Ohm)
Reg19	Resistance AI6 (Ohm)

Reg20	Temperature AI1 (°C - NTC10)	
Reg21	Temperature AI2 (°C - NTC10)	
Reg22	Temperature AI3 (°C - NTC10)	
Reg23	Temperature AI4 (°C - NTC10)	
Reg24	Temperature AI5 (°C - NTC10)	
Reg25	Temperature AI6 (°C - NTC10)	
Reg26	Voltage measurement AI7 (0-100%)	
Reg27	Voltage measurement AI8 (0-100%)	
Reg28	AO-output 1 (0-100% - 0..10V)	
Reg29	AO-output 2 (0-100% - 0..10V)	
Reg30	AO-output 3 (0-100% - 0..10V)	
Reg31	AO-output 4 (0-100% - 0..10V)	
Reg32	Digital Input 1	Reg38 muss grösser oder gleich sein >= 2
Reg33	Digital Input 2	Reg38 muss grösser oder gleich sein >= 2
Reg34	Digital Input 3	Reg38 muss grösser oder gleich sein >= 2
Reg35	Digital Input 4	Reg38 muss grösser oder gleich sein >= 2
Reg36	Digital Input 5	Reg38 muss grösser oder gleich sein >= 2
Reg37	Digital Input 6	Reg38 muss grösser oder gleich sein >= 2
Reg38	DigitalInput off-delay in seconds (used for all digital inputs)	
Reg39	Relay 1 control	

Reg40	Relay 2 control
Reg41	Relay 3 control
Reg42	Relay 4 control
Reg43	DI-point that controls relay 1 (1..6, 0=n/a)
Reg44	DI-point that controls relay 2 (1..6, 0=n/a)
Reg45	DI-point that controls relay 3 (1..6, 0=n/a)
Reg46	DI-point that controls relay 4 (1..6, 0=n/a)
Reg47	Relay 1 current status
Reg48	Relay 2 current status
Reg49	Relay 3 current status
Reg50	Relay 4 current status
Reg51	DI 1 open/closed selection (0=normally open, 1=normally closed)
Reg52	DI 2 open/closed selection (0=normally open, 1=normally closed)
Reg53	DI 3 open/closed selection (0=normally open, 1=normally closed)
Reg54	DI 4 open/closed selection (0=normally open, 1=normally closed)
Reg55	DI 5 open/closed selection (0=normally open, 1=normally closed)
Reg56	DI 6 open/closed selection (0=normally open, 1=normally closed)
Reg64+Reg65	Resistance AI1 (Ohm - 32 bit - 64=MSB, 65=LSB)
Reg66+Reg67	Resistance AI2 (Ohm - 32 bit - 66=MSB, 67=LSB)

Reg68+Reg69	Resistance AI3 (Ohm - 32 bit - 68=MSB, 69=LSB)
Reg70+Reg71	Resistance AI4 (Ohm - 32 bit - 70=MSB, 71=LSB)
Reg72+Reg73	Resistance AI5 (Ohm - 32 bit - 72=MSB, 73=LSB)
Reg74+Reg75	Resistance AI6 (Ohm - 32 bit - 74=MSB, 75=LSB)