motrona BY-340

Supported Series: motrona BY-340
Website: http://motrona.net/index.html

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	motrona BY-340		
PLC I/F	RS232		
Baud rate	9600	1200 ~ 38400	
Data bits	7	7,8	
Parity	Even	Even, Odd, None	
Stop bits	1	1,2	
PLC sta. no.	11	11 ~ 99	

Device Address:

Bit/Word	Device type	Format	Range	Note
B	Reset	D	0	
B	Trim-	D	0	
B	Trim+	D	0	
B	Activate Data	D	0	
B	Integrator off	D	0	
B	Store EEProm	D	0	
B	Scroll Display	D	0	
B	Keyboard Disable	D	0	
B	Clear Min. & Max.	D	0	
B	Read front F1	D	0	
B	Stop Slave	D	0	
B	Index Slave	D	0	
B	Index Master	D	0	
B	Reset Ex	D	0	
B	Trim- Ex	D	0	
B	Trim+ Ex	D	0	
B	Integrator off Ex	D	0	
B	Store EEProm Ex	D	0	
B	Scroll Display Ex	D	0	

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Bit/Word	Device type	Format	Range	Note
B	Keyboard Disable Ex	D	0	
B	Clear Min. & Max. Ex	D	0	
B	Read front F1 Ex	D	0	
B	Stop Slave Ex	D	0	
B	Index Slave Ex	D	0	
B	Index Master Ex	D	0	
B	Output Unit ready	D	0	
B	Output Led 1	D	0	
B	Output Led 2	D	0	
B	Output Status 4	D	0	
B	Output max. Frequency	D	0	
B	Output max. Correction	D	0	
B	Output Alert 2	D	0	
B	Output Alert 1	D	0	
DW	Factor 1	D	0	
DW	Factor 2	D	0	
W	Operational Mode	D	0	
W	Trim Time	D	0	
W	Integration Time	D	0	
W	Correction Divider	D	0	
DW	Factor 1 Scaling	D	0	
DW	Factor 1 Minimum	D	0	
DW	Factor 1 Maximum	D	0	
W	Sampling Time	D	0	
W	Wait Time	D	0	
DW	Max.Master Frequency	D	0	
W	Ramp Time	D	0	
W	Stop-Ramp Time	D	0	
W	Alert 1	D	0	
W	Alert 2	D	0	
DW	Phase Offset	D	0	
DW	Slave Pulses Index	D	0	
W	Phase Adjust	D	0	
W	Master Index Divider	D	0	
W	Index Window	D	0	
W	Max. Index Correction	D	0	
W	M Encoder Properties	D	0	
W	M Edge Counting	D	0	

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Bit/Word	Device type	Format	Range	Note
W	M Counting Direction	D	0	
W	M Speed Display Factor	D	0	
W	M Speed Display Divider	D	0	
W	M Speed Display Dec.Point	D	0	
W	S Encoder Properties	D	0	
W	S Edge Counting	D	0	
W	S Counting Direction	D	0	
W	Analogue Format	D	0	
W	Offset Correction	D	0	
W	Gain Correction	D	0	
W	Max. Correction	D	0	
W	Offset Total	D	0	
W	Gain Total	D	0	
W	Key Up Funtion	D	0	
W	Key Down Function	D	0	
W	Key Enter Function	D	0	
W	Input 1 Configuration	D	0	
W	Input 1 Function	D	0	
W	Input 2 Configuration	D	0	
W	Input 2 Function	D	0	
W	Input 3 Configuration	D	0	
W	Input 3 Function	D	0	
W	Input 4 Configuration	D	0	
W	Input 4 Function	D	0	
W	Unit Number	D	0	
W	Serial Baud Rate	D	0	
W	Serial Format	D	0	
W	Input Filter	D	0	
W	Trigger Threshold 1	D	0	
W	Trigger Threshold 2	D	0	
W	Brightness	D	0	
W	Frequency Control	D	0	
W	Factor Store Config	D	0	
W	Display Time	D	0	
W	Default Display	D	0	
DW	Protect Group F01	D	0	
DW	Protect Group F02	D	0	
DW	Protect Group F03	D	0	

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Bit/Word	Device type	Format	Range	Note
DW	Protect Group F04	D	0	
DW	Protect Group F05	D	0	
DW	Protect Group F06	D	0	
DW	Protect Group F07	D	0	
DW	Protect Group F08	D	0	
DW	Protect Group F09	D	0	
DW	test value	D	0	
DW	Differential_Counter	D	0	
DW	Diff_Counter_nodiv	D	0	
DW	ana_voltate	D	0	
DW	new_Counter_Master	D	0	
DW	new_Counter_Slave	D	0	
DW	frequency_a/10	D	0	
DW	scal_F1	D	0	
DW	Index_Buffer_Master	D	0	
DW	Index_Buffer_Slave	D	0	
DW	Index_Status	D	0	
DW	Counter_Master	D	0	
DW	Counter_Slave	D	0	
DW	Master_Index_Counter	D	0	
DW	Phase_Counter_Slave	D	0	
DW	Phase_Corr_Buffer	D	0	
DW	Trim_Phase	D	0	
DW	Index_Pulses_Master	D	0	
DW	Index_Pulses_Slave	D	0	
DW	Loop_time	D	0	
DW	Test_Variable	D	0	
DW	Base_Ram	D	0	

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Wiring Diagram:

Diagram 1

RS-232

The serial port pin assignments may vary between HMI models, please click the following link for more information.

HMI		PLC
Link		RS232 32P terminal
Rx	⟷	30 TXD
Tx	⟷	14 RXD
GND	⟷	31 GND

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