

Allen-Bradley Micrologix 1000/1500

1. The table below shows the formats of every register the PWS can access.

Register Type	Format	Range With the Register	Device Type / Aux. Address		Data Size R/W	
Output file	O0:n	n=0	0	0	Word	✓
Input file	I1:n	n=0-1	1	0	Word	✓
Status file	S2:nn	nn=0-32	2	0	Word	✓
Bit file	B3:nn	nn=0-31	3	0	Word	✓
Timer flag	T4:nn.0	nn=0-39	4	0	Word	✓
Timer Preset Value	T4:nn.1	nn=0-39	5	0	Word	✓
Timer Accumulator Value	T4:nn.2	nn=0-39	6	0	Word	✓
Counter flag	C5:nn.0	nn=0-31	7	0	Word	✓
Counter Preset Value	C5:nn.1	nn=0-31	8	0	Word	✓
Counter Accumulator Value	C5:nn.2	nn=0-31	9	0	Word	✓
Control file	R6:nn.0	nn=0-15	10	0	Word	✓
Control Size of Bit Array	R6:nn.1	nn=0-15	11	0	Word	✓
Control Reserved file	R6:nn.2	nn=0-15	12	0	Word	✓
Integer file	N7:nnn	nnn=0-104	13	0	Word	✓

Note 1: The Workstation can read up to 30 words in one read command.

Note 2: The Workstation does not support block read for registers in Timer, Counter, and Control files.

2. The table below shows the format of every on/off location the Workstation can access. When you specify the address of an On/off Block register, the Aux. address should be zero.

Relay Type	Format	Range With the Relay	Device Type / Aux. Address		Data Size	
						R/W
Output	O0:n/bb	n=0 ; bb=0-15	0xC0	0-15	Word	✓
Input	I1:n/bb	n=0-1; bb=0-15	0xC1	0-15	Word	✓
Status	S2:nn/bb	nn=0-32; bb=0-15	0xC2	0-15	Word	✓
Bit	B3:nn/bb	nn=0-31; bb=0-15	0xC3	0-15	Word	✓
Timer	T4:nn.0/bb	nn=0-39; bb=0-15	0xC4	0-15	Word	✓
Timer Preset Value	T4:nn.1/bb	nn=0-39; bb=0-15	0xC5	0-15	Word	✓
Timer Accumulator Value	T4:nn.2/bb	nn=0-39; bb=0-15	0xC6	0-15	Word	✓
Counter flag	C5:nn.0/bb	nn=0-31; bb=0-15	0xC7	0-15	Word	✓
Counter Preset Value	C5:nn.1/bb	nn=0-31; bb=0-15	0xC8	0-15	Word	✓
Counter Accumulator Value	C5:nn.2/bb	nn=0-31; bb=0-15	0xC9	0-15	Word	✓
Control	R6:nn.0/bb	nn=0-15; bb=0-15	0xCA	0-15	Word	✓
Control Size of Bit Array	R6:nn.1/bb	nn=0-15; bb=0-15	0xCB	0-15	Word	✓
Control Reserved	R6:nn.2/bb	nn=0-15; bb=0-15	0xCC	0-15	Word	✓
Integer	N7:nnn/bb	nnn=0-104; bb=0-15	0xCD	0-15	Word	✓

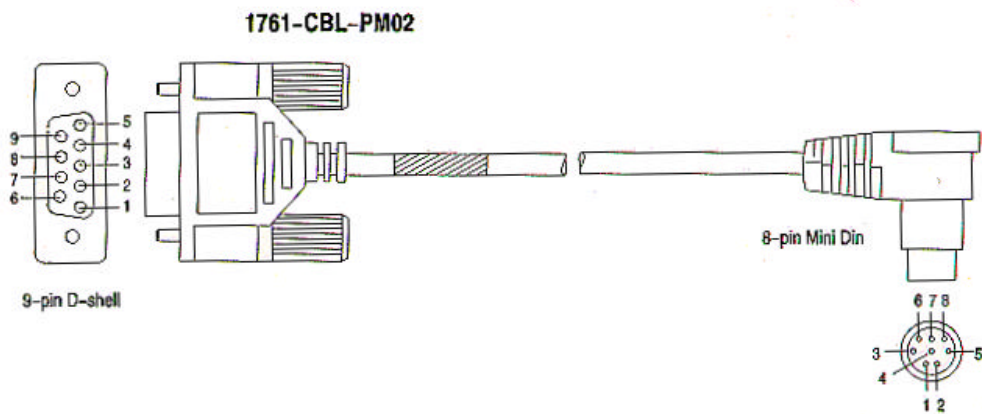
Note 3: The Workstation can read up to 480 bits in one read command.

Note 4: The Workstation doesnot support block read for bits in Timer, Counter, and Control files.

3. Example for the connections between PWS & RS232C of 1761-CBL-PM02:

HMI-COM port 25-pin female	-----CABLE-----	PLC-port RS232C 9-pin male
RXD 3	-----	2 SD
TXD 2	-----	3 RD
GND 7	-----	5 SG
RTX 4	-----	
CTX 5	-----	

HMI-COM port 9-pin male	-----CABLE-----	1761-CBL-PM02 9-pin male
RXD 2	-----	2 SD
TXD 3	-----	3 RD
GND 5	-----	5 SG
RTX 7	-----	
CTX 8	-----	



4. P.L.C. & PWS setting:

Please set the communication parameters & the DIP-Switch as below:

A. P.L.C. Setting		B. PWS-Setting
a. Communication format	:RS232C	Set the Workstation's operating parameters to match the PLC.
b. Node Address	:N	
c. Transmission Speed	:19200 bps	
d. Transmission Format (data bits,parity,stop bits)	:8-bits,none, 1-bit	
e. Com Port	:FULL DUPLEX ; DF1	
f. CRC ERROR Check	:YES	
Note: You should open those files in the PLC that the Workstation will access.		