

ABB EtherNet/IP (Implicit Messaging)

Supported Series: ABB EtherNet/IP (Implicit Messaging)

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	ABB EtherNet/IP (Implicit Messaging)		
PLC I/F	Ethernet		
Port no.	44818		
Assembly instance	Input::101 Output:111	Input::101~106 Output:111~116	
Mode	Anybus Adapter (IRC5-DSQC669)	Anybus Adapter (IRC5-DSQC669) EIP Adapter (IRC5-DSQC10XX)	

Online simulator	YES
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	Input_Bit	DDDdd	0 ~ 51215	
B	Output_Bit	DDDdd	0 ~ 51215	
B	Input	DDD	0 ~ 512	
B	Output	DDD	0 ~ 512	

Application Example:

ABB robot's parameter settings are very flexible; almost all of its functions can be performed through communication with HMI. The below is a list showing how ABB robot's parameters map to HMI function. Contents in this mapping list are all user-defined. This list shows that HMI can directly control the robot to accomplish miscellaneous tasks, while at the same time allowing users to monitor robot status.

Sample Robot I/O List					
Parameters	Input Address	Output Address	Format	Bit	HMI Function
Start At Main	0		Bool	1	Start Button
Servo On	1		Bool	1	Start Button
Product to be Produced	2-17		Word	16	Product Selection Button (1~16)
Reserved Variable 1	18-33		Word	16	Reserved Variable
Coordinate Offset 1	34-65		Float	32	Offset (e.g. -3.734mm)
...					
Task Executing		0	Bool	1	Status: In Operation
Auto On		1	Bool	1	Status: In Auto. Mode
Production in Progress #1~#16		2~17	Word	16	Status: Product No. in Production
Robot's Reserved Variable 1		18~33	Word	16	Reserved Variable 1 (e.g. Production is OK/NG)
Robot's Reserved Variable 2		34~49	Word	16	Reserved Variable 2 (e.g. Extend the time for 217 seconds)

Wiring Diagram:

Ethernet cable

