

I/O Module Status Byte


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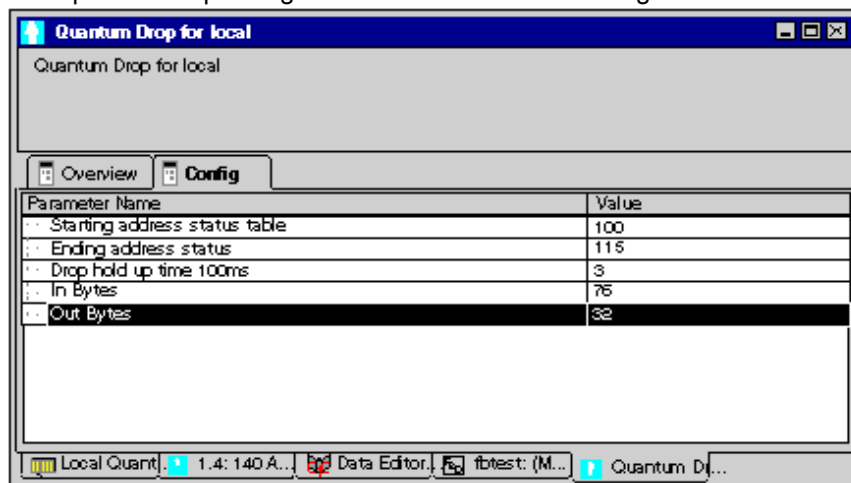
Addressing Module Status Data

In addition to possible channel related diagnostics data, a module related status byte may be used. The status information of all modules in a drop is administered by a table of %IW words. The starting address of this table can be entered in the configuration screen for the drop.

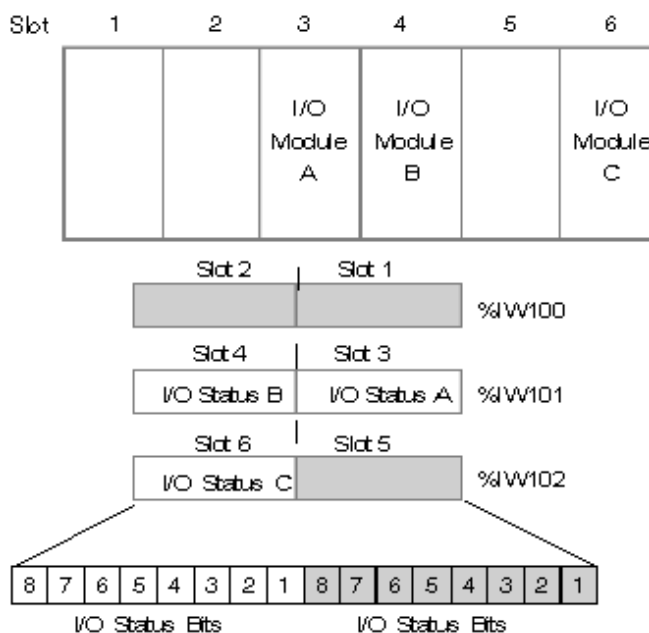
This information is not accessible through topological addressing.

NOTE: The status information is only available if the module supports a status byte. For the meaning of the status byte, check the module descriptions.

Example of a drop configuration screen with the starting address of the status table set to 100:



The following illustration shows how one word of the table conveys the status information for two modules:



Example

The following example shows a rack and the corresponding I/O status bytes displayed in an animation table. The drop is configured to start at word %IW100 and allocates 16 words. This represents the local and expansion rack, and assumes they are 16 slot racks.

If a module does not have a status byte associated with the module or the slot is empty, then the byte = 0.

Rack configuration and animation table:

Name	Value	Type	Comment
%IW100:16		ARRAY[0..15]	
%IW100[0]	0	Int	
%IW100[1]	2#1000_0000_0000_000	Int	
%IW100[2]	2#0000_0000_0000_111	Int	
%IW100[3]	0	Int	
%IW100[4]	2#0000_0000_0011_111	Int	
%IW100[5]	0	Int	
%IW100[6]	0	Int	
%IW100[7]	0	Int	
%IW100[8]	0	Int	
%IW100[9]	0	Int	
%IW100[10]	0	Int	
%IW100[11]	0	Int	
%IW100[12]	0	Int	
%IW100[13]	0	Int	
%IW100[14]	0	Int	
%IW100[15]	0	Int	

Relation between slot, input word and status byte. The byte related to the module is marked:

Slot	Input Word	Value	Module	Module
1	%IW[0]	0	power supply	no status byte
2		0	CPU	no status byte
3	%IW[1]	2#1000_0000_0000_0000	CPU	no status byte
4		2#1000_0000_0000_0000	AVI	At least one channel is not operating correctly.
5	%IW[2]	2#0000_0000_0000_1111	ATI	Channels 1 ... 4 are not operating correctly.
6		2#0000_0000_0000_1111	140 CRP 93• 00	no status byte
NOTE: If you install a 140 CRP 312 00 remote I/O head module on the local rack instead of a 140 CRP 93• 00 module, then:		2#1101_1110_0000_0000	140 CRP 312 00	CRP status byte ¹
7	%IW[3]	0	empty	
8		0	empty	
9	%IW[4]	2#0000_0000_0011_1111	DDO	All channels are not operating correctly.
10		2#0000_0000_0011_1111	XBE	no status byte

...

¹ If you install a 140 CRP 312 00 remote I/O head module on the local rack instead of a 140 CRP 93• 00 module, the status byte is the **ETH_STATUS** detailed in the *Device DDT Names* topic in the *Quantum EIO Remote I/O Modules Installation and Configuration Guide*.

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