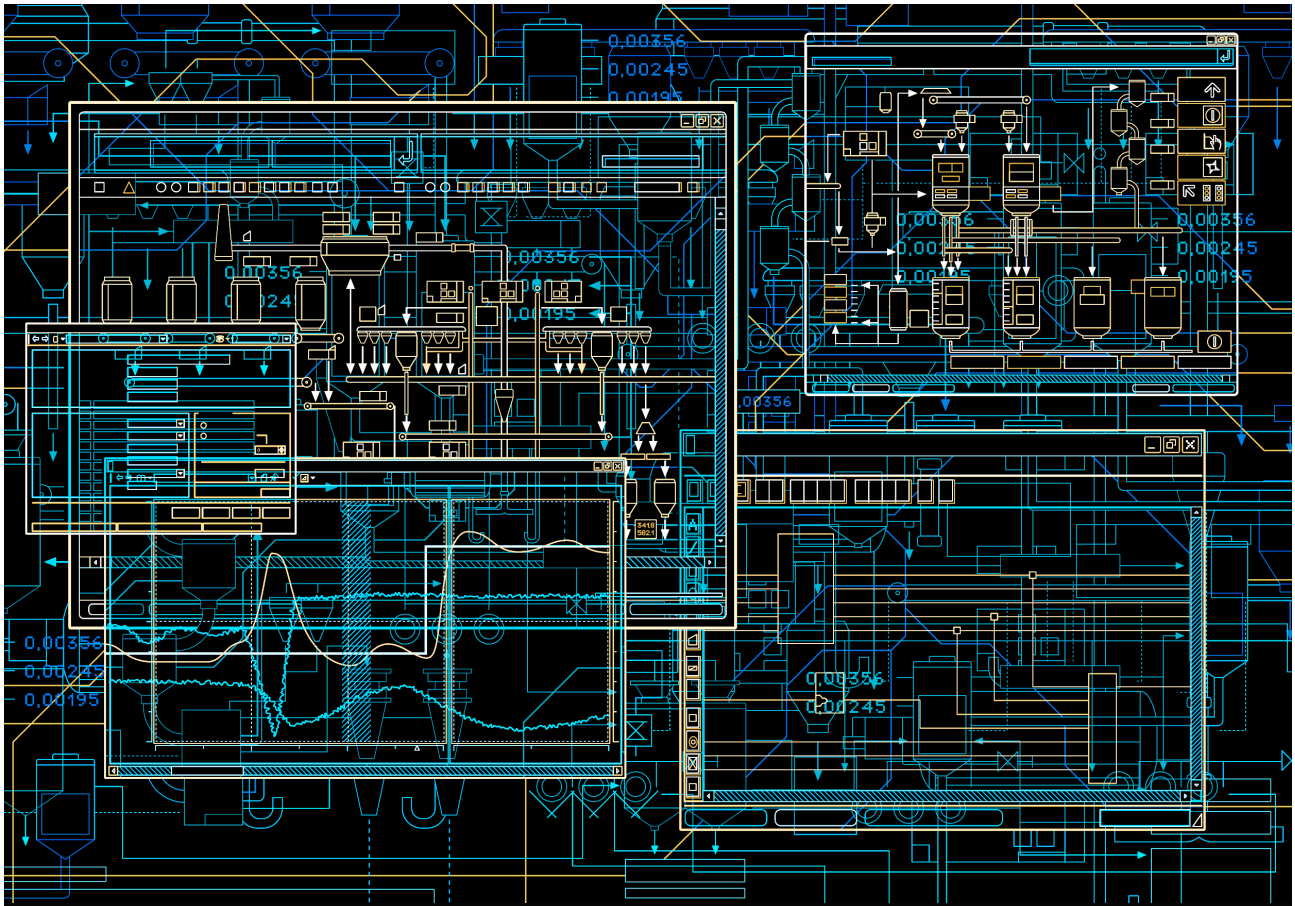


S800 I/O

DTM 5.3

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Table 1. S800 I/O Units (Continued)

Units	Description
AI895	Analog Input, 1*8 channels, 4..20 mA, I.S. and HART Interface
AO801	Analog Output 1*8 channels, 0...20 mA, 4...20 mA
AO810	Analog Output, 1*8 channels, 0..20 mA, 4..20 mA
AO815	Analog Output, 1*8 channels, 4..20 mA, HART Interface, Extended Diagnosis
AO820	Analog Output, 4*1 channels, -20..20 mA, 0..20 mA, 4..20 mA, -10..10 V, 0..10 V, 2..10 V, individually isolated
AO845	Analog Output, 1*8 channels, 4..20 mA, HART Interface, Extended Diagnosis, Redundant Applications
AO890	Analog Output, 1*8 channels, 0..20 mA, 4..20 mA, I.S Interface
AO895	Analog Output, 1*8 channels, 4..20 mA, I.S. and HART Interface
DI801	Digital Input 24 V d.c., 1*16 channels(1)
DI802	Digital Input 120 V a.c., 110 V d.c., 8*1 channels
DI803	Digital Input 230 V a.c., 220 V d.c., 8*1 channels
DI810	Digital Input 24 V d.c., 2*8 channels(2), current sinking
DI811	Digital Input 48 V d.c, 2*8 channels current sinking

Section 2 Installation

System Prerequisites

The following are the prerequisites to install and operate S800 IO DTM version 5.3:

- Operating System (any of the following):
  - Windows Server 2008
    - 32-bit (x86) R1 with Service Pack 2 or
    - R2 with Service Pack 1 (64-bit)
  - Windows 7 with Service Pack 1
    - 32-bit (x86) or
    - 64-bit (x64)
- ABB FDT Shared Components:
  - Version 13.0.0.0
- ABB FDT Base Container:
  - Version 13.0.0.0

For remote I/O, a PROFIBUS master DTM is required (for example AC800F DTM).
To use the HART functionality together with the DTMs AI815, AI845, AI880, AI895, AO815, AO845 and AO895, a HART DTM has to be installed (for example Basic HART DTM).



The S800 I/O DTM version 1.0/0 and higher will not run in frame applications conforming to version 0.98 of the FDT specification. The FDT versions differ in the expanded number of interfaces, their meaning and data management.

Module	About DTM	Identifi-cation	Diagnosis	Observe	Configuration	Parameter-ization	Service
AI835A	X	X	X	X	X		
AI843	X	X	X	X	X		X
AI845	X	X	X	X	X		X
AI880	X	X					
AI890	X	X	X	X	X		
AI893	X	X	X	X	X		
AI895	X	X	X	X	X	X(1)	X
AO801	X	X	X	X	X		
AO810	X	X	X	X	X		
AO815	X	X	X	X	X		
AO820	X	X	X	X	X		
AO845	X	X	X	X	X		X
AO890	X	X	X	X	X		
AO895	X	X	X	X	X	X(1)	X
DI801	X	X	X	X	X		
DI802	X	X	X	X	X		
DI803	X	X	X	X	X		
DI810	X	X	X	X	X		
DI811	X	X	X	X	X		
DI814	X	X	X	X	X		
DI818	X	X	X	X	X		
DI820	X	X	X	X	X		
DI821	X	X	X	X	X		

Diagnosis

The diagnosis control shows the status of the module. It displays information like Module missing, Wrong module type and Internal channel error. The available diagnosis can differ depending on the module type.

Station specific diagnosis is displayed in Diagnosis control for the CI801 or CI840 DTM. AI895 and AO895 have also specific HART diagnosis, see Diagnosis section for respective unit.

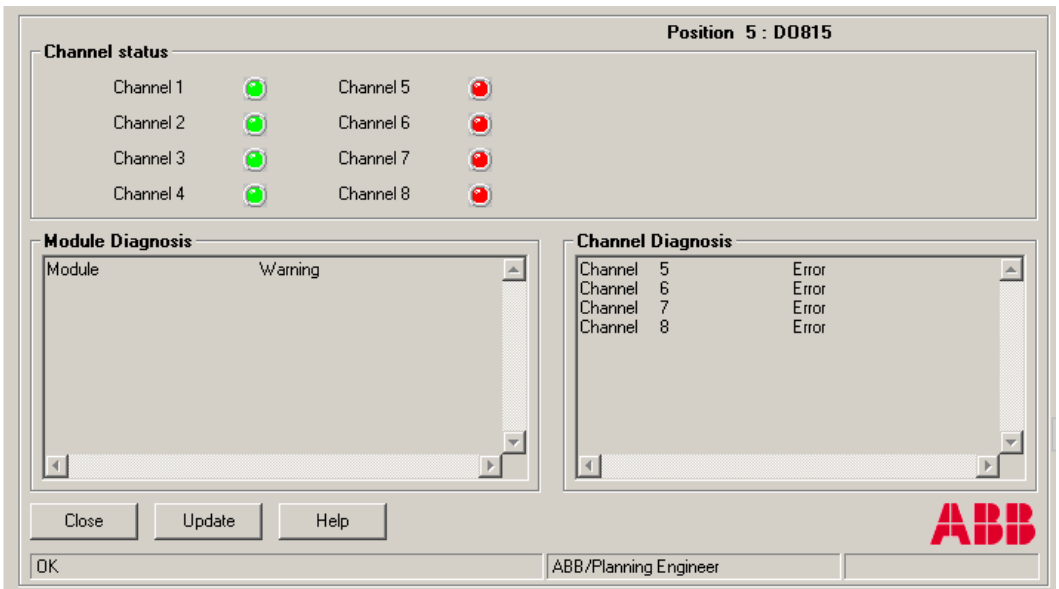


Figure 15. Diagnosis for I/O modules not supporting Diagnostic History

Read Diagnostic History

Shows a list of diagnostic events that have been changed since the list was last read. When clicking this button the history on the I/O module will be erased.

Observe

The Observe control displays the dynamic data and channel status for a module in online mode. It is possible to update the value once or to read it cyclic with an interval of 30 s by checking the corresponding check box. To stop the cyclic reading, press the **Cancel** button.

Observe Analog modules

Displays the dynamic data, both in digits, percent and as a gauge bar and the chosen signal range.

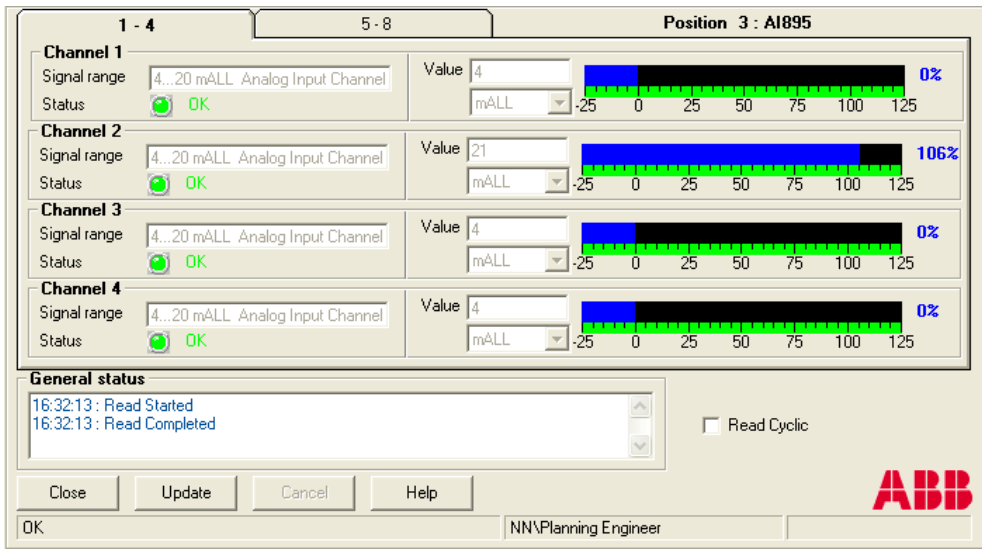


Figure 17. Observe, Analog modules, this example shows AI895 for AC800F and AC870P