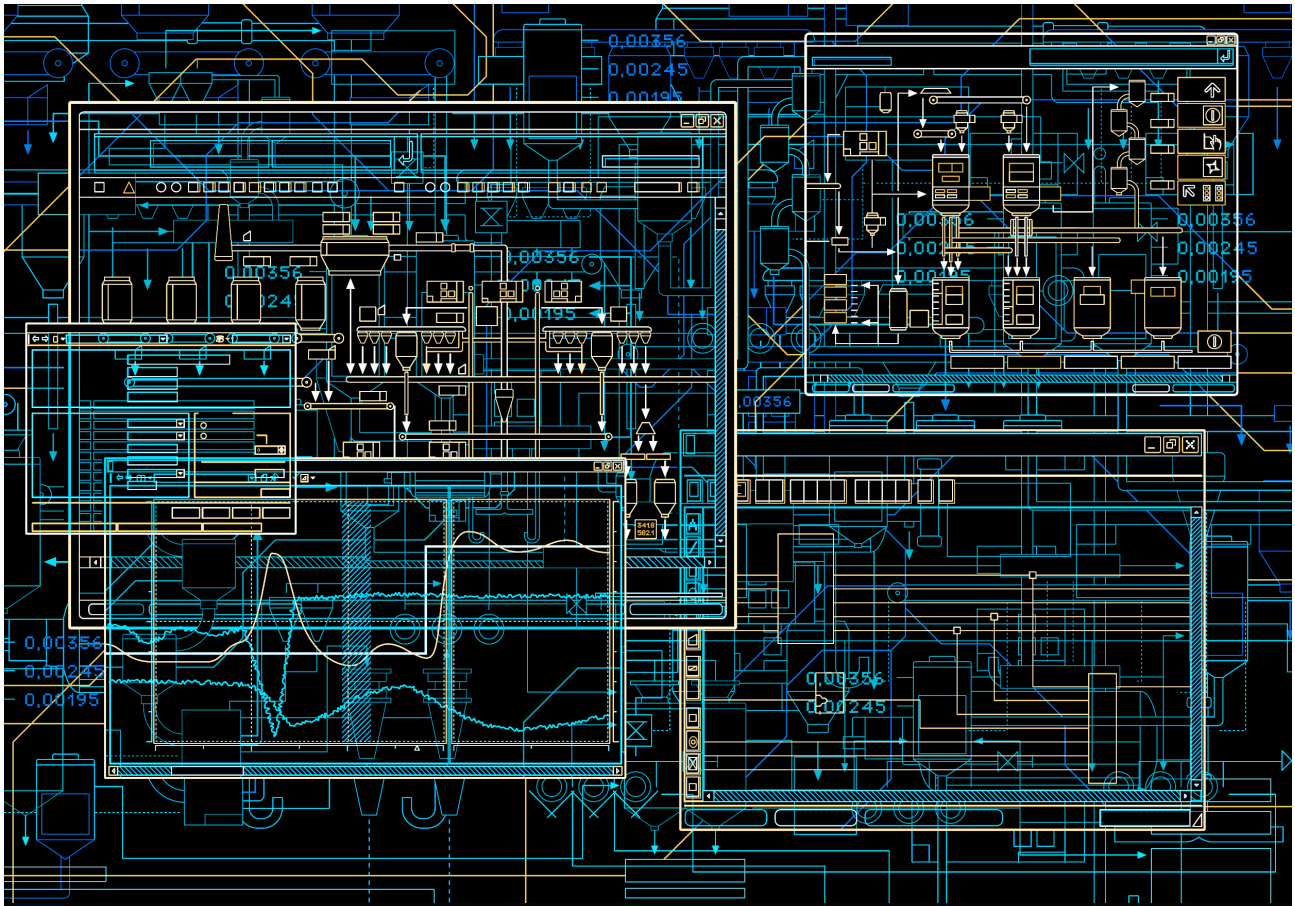


S800 I/O

DTM 5.3

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Section 3 - Run-time Operation

Introduction 35
Data Storage 35
User Interfaces 36
Frame Application 36
System Structure 37
User Roles 38
Buttons 39
Input/Output Boxes 40
Status Bar 41
Applications 42
About DTM 46
Identification 47
Diagnosis 49
Observe 51
CI801 54
CI840 58
AI801/AI810/AI820/AI825 66
AI815/AI845 68
AI830 74
AI835/AI835A 77
AI843 80
AI880 84
AI890 85
AI893 87
AI895 91
AO801/AO810/AO820 104
AO815/AO845 106
AO890 111
AO895 113
DI801/DI802/DI803/DI810/DI811/DI814/DI818*/DI820/DI821/ DI828*/DI890 126
DI825 130

DI830/DI831 133
DI840 136
DI885 140
DO801/DO802/DO810/DO814/DO815/DO818*/DO820/DO821/DO828* 143
DO840 147
DO890 151
DP820 154
DP840 157
ABB Standard Drive 161

Appendix A - Operating with HART DTMs

Introduction 163
Connecting a HART instrument 163
Supervision of HART instrument 164

Appendix B - Dynamic Data

CI801 Dynamic values 165
CI840 Dynamic values 166
AI801/AI810/AI815/AI830/AI835/AI845/AI890/AI893/AI895 Dynamic values 167
AI820/AI825 Dynamic values 168
AI835A Dynamic Values 168
AI843 Dynamic values 169
AO801/AO810/AO815/AO845/AO890/AO895 Dynamic values 170
AO820 Dynamic values 171
DI801/DI810/DI811/DI814/DI828*/DI840 Dynamic values 172
DI818 Dynamic values 173
DI802/DI803/DI820/DI821/DI890 Dynamic values 175
DI825 Dynamic Values 176
DI830/DI831 Dynamic Values 177
DI885 Dynamic Values 178
DO801/DO810/DO814/DO828*/DO840 Dynamic values 179
DO818 Dynamic values 180

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		

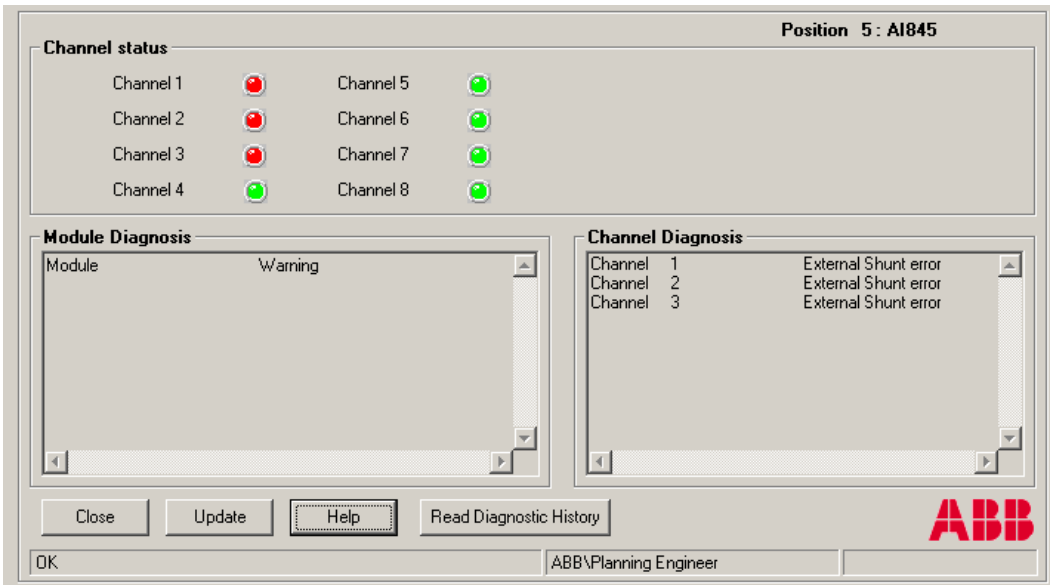


Figure 16. Diagnosis for AI815, AO815, AI830, AI835, AI835A, AI843, AI845 and AO845

Channel Status area

Displays the channel status reported by the module in cyclic data.

Module Diagnosis area

Reports diagnostic that affects the entire I/O module i.e. Wrong module type.

Channel Diagnosis area

Reports errors on separate channels.

AO801/AO810/AO820

About DTM

See About DTM on page 46.

Identification

See Identification on page 47.

Dynamic Data

See AO801/AO810/AO815/AO845/AO890/AO895 Dynamic values on page 170, and AO820 Dynamic values on page 171.

Diagnosis

See Diagnosis on page 49.

Observe

See Observe on page 51.

Configuration



This control is not available if the unit is used towards AC 800M. The configuration data is then set via Control Builder Professional.

For configuration of the module, select the “Configuration” menu item. It shows the user parameters of the module, i.e. Signal range, OSP Value.