

Fieldbus Adapter with DC-Drives


DCS 400, DCS 500B, DCS 600

MODBUS Adapter Module

NMBA-01



Contents of the package	1 pc	MODBUS Adapter Module, Type NMBA-01
	2 pcs	Fibre optic cables (2m) for connecting the adapter to the drive
	1 pc	Fieldbus adapter with DC-Drives (this document)



STOP! Take into account the **Safety Instructions** in the appropriate documentations!

Related Documentation There are two parts of documentation:

- Fieldbus specific documentation
- Drive specific documentation

The documentation is available via internet :

www.abb.com/motors&drives

after selecting **DC-Drives**, then **Downloads** and then the converter type (DCS 400, DCS 500 or DCS 600) you will find “**Serial communication**”.

Fieldbus specific documentation

Description of the fieldbus adapter. Please see also the chapter “Specific hints for the operation with DC-Drives” of this document.

**Installation and Start-up Guide
Modbus Adapter Module
NMBA-01
3AFY 58919772 R0225**

Drive specific documentation

Description of available fieldbus adapters concerning DCS 400, DCS 500

DCS 400 Manual
3ADW 000 095 R0501

DCS 500 Description of the drive-specific serial link connection
3ADW 000 086 R0101

DCS 600 Description of the drive-specific serial link connection
3ADW 000 097 R0101

Adapter Connection

For more detail please see the documentation “Installation and Start-up Guide Modbus Adapter Module NMBA-01”

X2:		
1	D(P)	=B Data Positive (Conductor 1 in twisted pair)
2	D(N)	=A Data Negative (Conductor 2 in twisted pair)
3	DG	Data Ground
4	SHF	Cable screen AC earthing (via an RC filter)

X2:		
5	SH	Cable screen earthing (directly earthed)
6	0V	Power supply for the module
7	+24V	screened cable
8	PE	Earth

Specific hints for the operation with DC-Drives

The following table relates to the “**Installation and Start-up Guide**”, which is indicated in chapter “Related documentation” of this document.

The column **Page** shows the page number of the documentation "Installation and Start-up Guide".

Page	Rem.
2-2	<p>Compatibility</p> <ul style="list-style-type: none"> also compatible for DCS 400 and DCS 600 <p>Delivery Check (different content for DC-Drives) The option package for the NMBA-01 MODBUS Adapter Module contains:</p> <ul style="list-style-type: none"> MODBUS Adapter Module, Type NMBA-01 Two pieces of fibre optic cables (2m) for connecting the adapter to the drive This document : „Fieldbus adapter with DC-Drives“
4-3	<p>NMBA-01 Connections</p> <p>Fibre optic link connecting the NMBA-01 to the drive.</p> <p>DCS 400 : Fibre optic link connector V800 on the SDCS-CON-3(A) board DCS 500 : Fibre optic link connector V260 on the SDCS-CON-2 board DCS 600 : Fibre optic link connector CH0 on the AMC-DC Classic board</p>
5-2	<p>Table 5-1 The NMBA-01 configuration parameters (and the description after this tabel)</p> <hr/> <p>Fieldbus Par.No. : 1 MODULE TYPE</p> <p>DCS 400 : Select "Fieldbus" in parameter 8.01 When a fieldbus communication is selected the character string „Fieldbus“ is displayed.</p> <p>DCS 500 : Select "Fieldbus" in parameter 40.01 After initialisation the string NMBA-01 Vx.x instead of "Fieldbus" can be read by using the CDP312 panel.</p> <p>DCS 600 : Select "Fieldbus" in parameter 98.02. This selection will open the fieldbus group 51. After the initialisation the string NMBA-01 Vx.x can be read in 51.01.</p>
A-1	<p>DDCS Link Compatible Devices</p> <ul style="list-style-type: none"> also compatible for DCS 400 and DCS 600



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