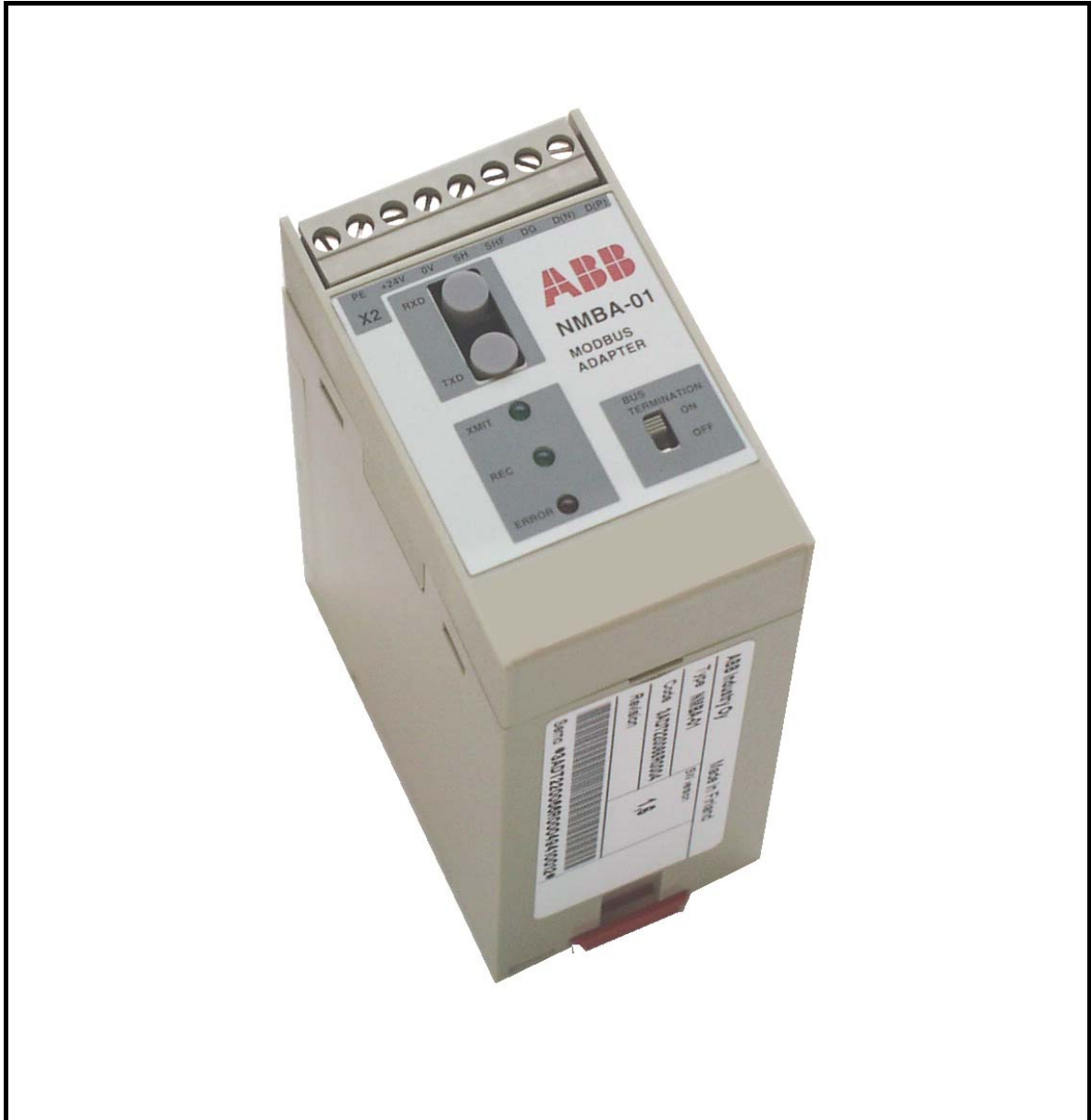


# Fieldbus Adapter with DC-Drives

DCS 400, DCS 500B, DCS 600

MODBUS Adapter Module  
NMBA-01



<b>Contents of the package</b>	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

#### **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  
3AFY58919772 Rev. B**

#### **Drive specific documentation**

Description of available fieldbus adapters concerning DCS 400, DCS 500 or DCS 600.

**DCS 400** Manual  
3ADW 000 095 R0701

**DCS 500** Description of the drive-specific serial link connection  
3ADW 000 086 R0201

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

#### **Internet**

The documentation is available via internet:  
[www.abb.com/dc](http://www.abb.com/dc) , further please select :

**Drives**

**DC Drives**

**Standard Drives** for DCS400 or

**Industrial Drives** for DCS500 and DCS600

**Options** (tap)

under chapter **Serial communication** please find **Further documentations**, which are linked with the relevant documents

## 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><b>Compatibility</b></p> <ul style="list-style-type: none"> <li>also compatible for DCS 400 and DCS 600</li> </ul> <p><b>Delivery Check</b> (different content for DC-Drives) The option package for the NMBA-01 MODBUS Adapter Module contains:</p> <ul style="list-style-type: none"> <li>MODBUS Adapter Module, Type NMBA-01</li> <li>Two pieces of fibre optic cables (2m) for connecting the adapter to the drive</li> <li>This document : „Fieldbus adapter with DC-Drives“</li> </ul>
4-3	<p><b>NMBA-01 Connections</b></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><b>Table 5-1 The NMBA-01 configuration parameters</b> (and the description after this tabel)</p> <hr/> <p><b>Fieldbus Par.No. : 1 MODULE TYPE</b></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><b>DDCS Link Compatible Devices</b></p> <ul style="list-style-type: none"> <li>also compatible for DCS 400 and DCS 600</li> </ul>



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