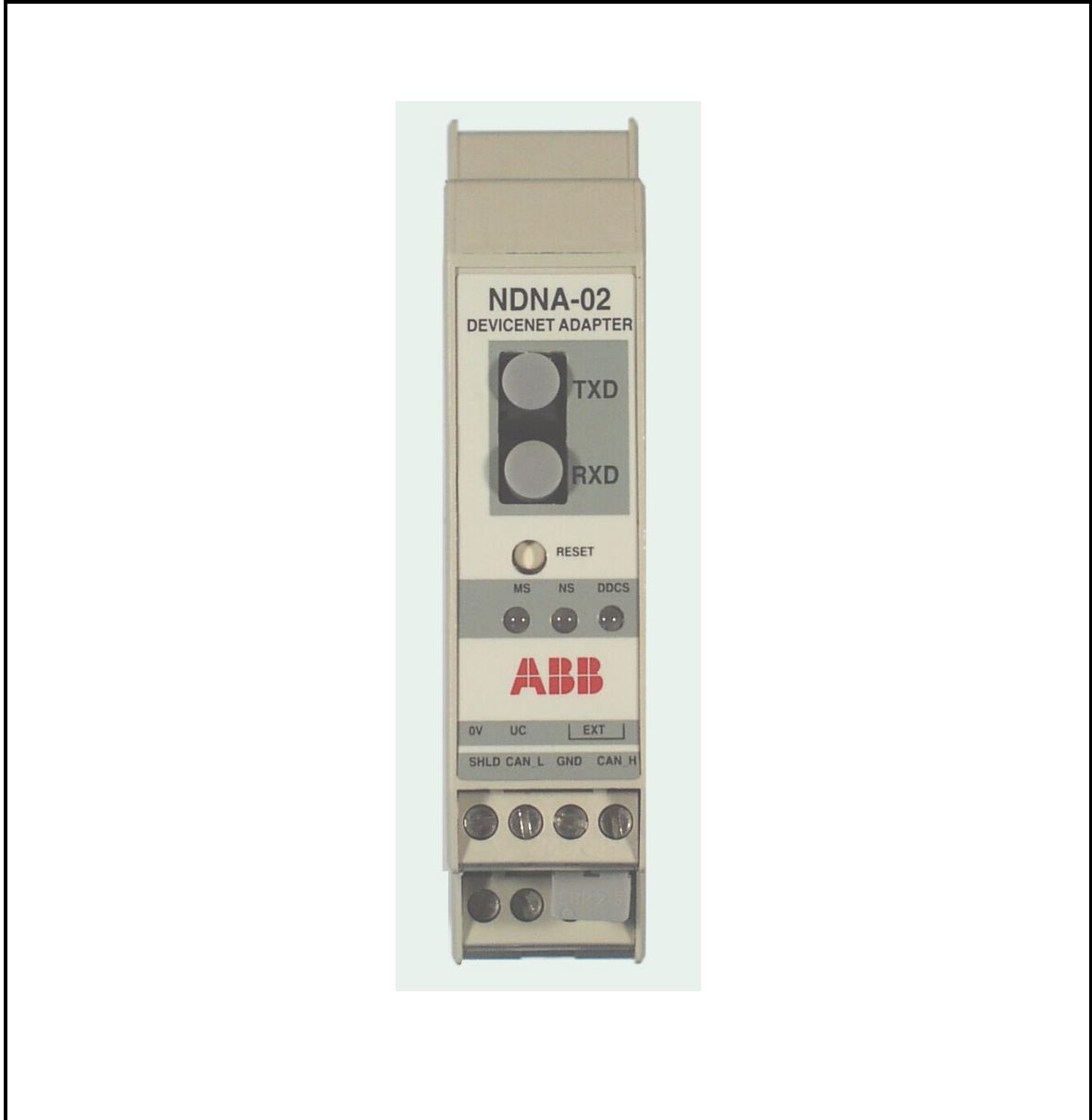


Fieldbus Adapter with DC-Drives

DCS 400, DCS 500B, DCS 600

DeviceNet Adapter Module

NDNA-02



| | | |
|--------------------------------|-------|---|
| Contents of the package | 1 pc | DeviceNet Adapter Module, Type NDNA-02 |
| | 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.

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
DeviceNet Adapter Module
NDNA-02
3AFY 58919829 R0325**

Drive specific documentation

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

DCS 400 Manual
3ADW 000 095 R0401

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 details please see the documentation “Installation and Start-up Guide”

| X1: | | |
|-----|-----|----------|
| 1 | 0V | DC GND |
| 2 | UC | +24V VDC |
| 3 | EXT | DC GND |
| 4 | | CAN GND |

| X2: | | |
|-----|-------|----------------|
| 5 | SHLD | Network shield |
| 6 | CAN_L | Busline low |
| 7 | GND | Bus ground |
| 8 | CAN_H | Busline high |

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. |
|-------------------|---|
| 2-3 | <p>Compatibility The NDNA-02 is compatible with: DCS 400 (SW 108.0), DCS 500B (SW 21x232) and DCS 600 (SW 15x610)</p> <p>Delivery Check (different contents for AC- and DC-Drives) The option package for the NDNA-02 DeviceNet Adapter Module contains:</p> <ul style="list-style-type: none"> • DeviceNet Adapter Module, Type NDNA-02 • Two pieces of fibre optic cables (2m) for connecting the adapter to the drive • Fieldbus adapter with DC-Drives (this document) |
| 3-2 | <p>Mounting Inside the Drive <i>The adapter can not be built inside the DC-drive</i></p> |
| 4-4 | <p>NDNA-02 Connections Fibre optic link connecting the NDNA-02 to the drive. 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> |
| 5-1 | <p>Configuring the system EDS Files: Please look at internet, if the files are available. www.abb.com/motors&drives</p> |
| 5-2 | <p>Table 5-1 The NDNA-02 configuration parameters. Fieldbus Par.Nr. 1 : DCS 400 : Select "Fieldbus" in parameter 8.01 DCS 500 : Select "Fieldbus" in parameter 40.01 After initialisation the string NDNA-02 V2.x instead of "Fieldbus" can be read by using the CDP312 panel. DCS 600 : Select "Fieldbus" in parameter 98.02. This selection will open the fieldbus group 51. After the initialisation the string NDNA-02 V2.x can be read in 51.01.</p> |
| 5-3 | <p>01 MODULE TYPE This parameter shows the module type as detected by the drive. Exception : DCS 400 (the name FIELDBUS is shown here)</p> |
| 5-1 5-3 6-2 | <p>Table 5-1: 6 Poll output select, 7 Poll/cos input sel, 8 Cos data output Assembly selection Note: The <i>BASIC SPEED</i> assembly ... The following applies to all DC-Drives : The <i>BASIC SPEED</i> assembly is not supported by DCS 400, DCS 500B and DCS 600</p> |
| 7-3 | <p>Drive Setup: See the drive specific documentations for more information.</p> |



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