

# Fieldbus Adapter with DC-Drives

DCS 400, DCS 500B, DCS 600


DeviceNet Adapter Module

NDNA-02



**ABB**

<b>Contents of the package</b>	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)

	<b>STOP!</b>	<b>Take into account the Safety Instructions in the appropriate documentations!</b>
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## 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**  
**DeviceNet Adapter Module**  
**NDNA-02**  
 3AFY58919829 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. the 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 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><b>Compatibility</b> The NDNA-02 is compatible with: DCS 400 (SW 108.0), DCS 500B (SW 21x232) and DCS 600 (SW 15x610) or higher software versions</p> <p><b>Delivery Check</b> (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"> <li>• DeviceNet Adapter Module, Type NDNA-02</li> <li>• Two pieces of fibre optic cables (2m) for connecting the adapter to the drive</li> <li>• Fieldbus adapter with DC-Drives (this document)</li> </ul>
3-2	<p><b>Mounting Inside the Drive</b> <i>The adapter can not be built inside the DC-drive</i></p>
4-4	<p><b>NDNA-02 Connections</b> 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><b>Configuring the system</b> EDS Files: Please find these file on DC DRIVES CD ROM or look at internet (see page 2 of these document for internet address).</p>
5-2	<p><b>Table 5-1</b> 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. <b>Exception</b> : 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 ... <b>The following applies to all DC-Drives :</b> The <i>BASIC SPEED</i> assembly is <b>not</b> supported by DCS 400, DCS 500B and DCS 600</p>
7-3	<p><b>Drive Setup:</b> See the drive specific documentations for more information.</p>



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