

# FSCA-01 RS-485 adapter module

## Quick installation and start-up guide

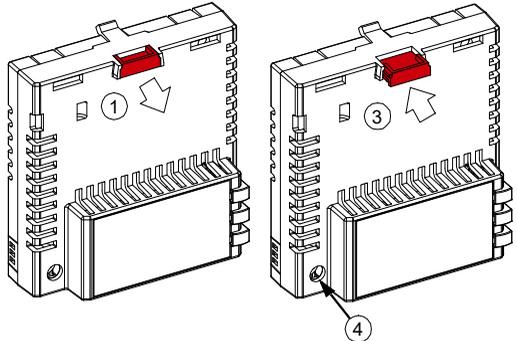
### Safety instructions



**WARNING!** Obey the safety instructions. If you ignore them, injury or death, or damage to the equipment can occur. See the user's manual.

### Mechanical installation

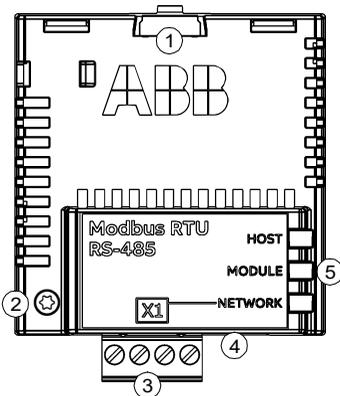
1. Pull out the lock.
2. Install the module carefully to an option module slot of the drive. See the drive hardware manual.
3. Push in the lock.
4. Tighten the screw to torque 0.8 N·m using a Torx TX10 screwdriver.



**WARNING!** Do not use excessive force, or leave the screw too loose. Over-tightening can damage the screw or module. A loose screw decreases the EMC performance, and can cause an operation failure.

### Electrical installation

#### Layout of the module



No.	Description
1	Lock
2	Mounting and grounding screw
3	Bus connector [X1]
4	Termination jumper [J2]
5	Diagnostic LEDs

## ■ Pin allocation for [X1]

Pin	Description	
1	SHDL	Bus cable shield
2	DATA_B	Data positive
3	DATA_A	Data negative
4	GND_B	Isolated signal ground

## ■ Bus termination with [J2]



## Start-up

When the module is connected to the drive, the drive control program sets the applicable parameters. See the appropriate drive manual.

## ■ Basic parameter settings

Index	Name	Value
20.01	Ext1 commands	Fieldbus A
22.11	Speed ref1 source	FBA A ref 1
28.11	Frequency ref1 source	FBA A ref 1
50.01	FBA A enable	Enable (or select the option slot in which the module is installed)
50.02	FBA A comm loss func	Fault
51.02	Profile	The ABB Drives - Classic communication profile is the default value.
51.03	Station ID	Set the address of the device.
51.04	Baud rate	Set the baud rate of the link.
51.05	Parity	Set the use of parity and stop bit(s) and the data length.

Register address when the ABB Drives - Classic communication profile is used.

Register Address	Register Data (16-bit)
(4)00001	ABB Drives Profile Control Word
(4)00002	Reference 1
(4)00003	Reference 2
(4)00004	ABB Drives Profile Status Word
(4)00005	Actual 1
(4)00006	Actual 2
(4)00101...(4)09999	Drive Parameter Access (16-bit); Register Address = (4)00000 + 100 × Group + Index
(4)20000...(4)29999	Drive Parameter Access (32-bit); Register Address = (4)20000 + 200 × Group + 2 × Index

To take the settings into use, validate and refresh the parameters with parameter 51.27 *FBA par refresh*.

## Further information

See the latest version of *FSCA-01 RS-485 adapter module user's manual* (3AUA0000109533 [English]) in ABB library ([www.abb.com/drives/documents](http://www.abb.com/drives/documents)).

For more information on ABB fieldbus options and protocols, see the fieldbus communications web page ([new.abb.com/drives/connectivity/fieldbus-connectivity](http://new.abb.com/drives/connectivity/fieldbus-connectivity)).



[FSCA-01 manual](#)



[Fieldbus communications web page](#)

[abb.com/drives](http://abb.com/drives)

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