

■ Modbus RTU card

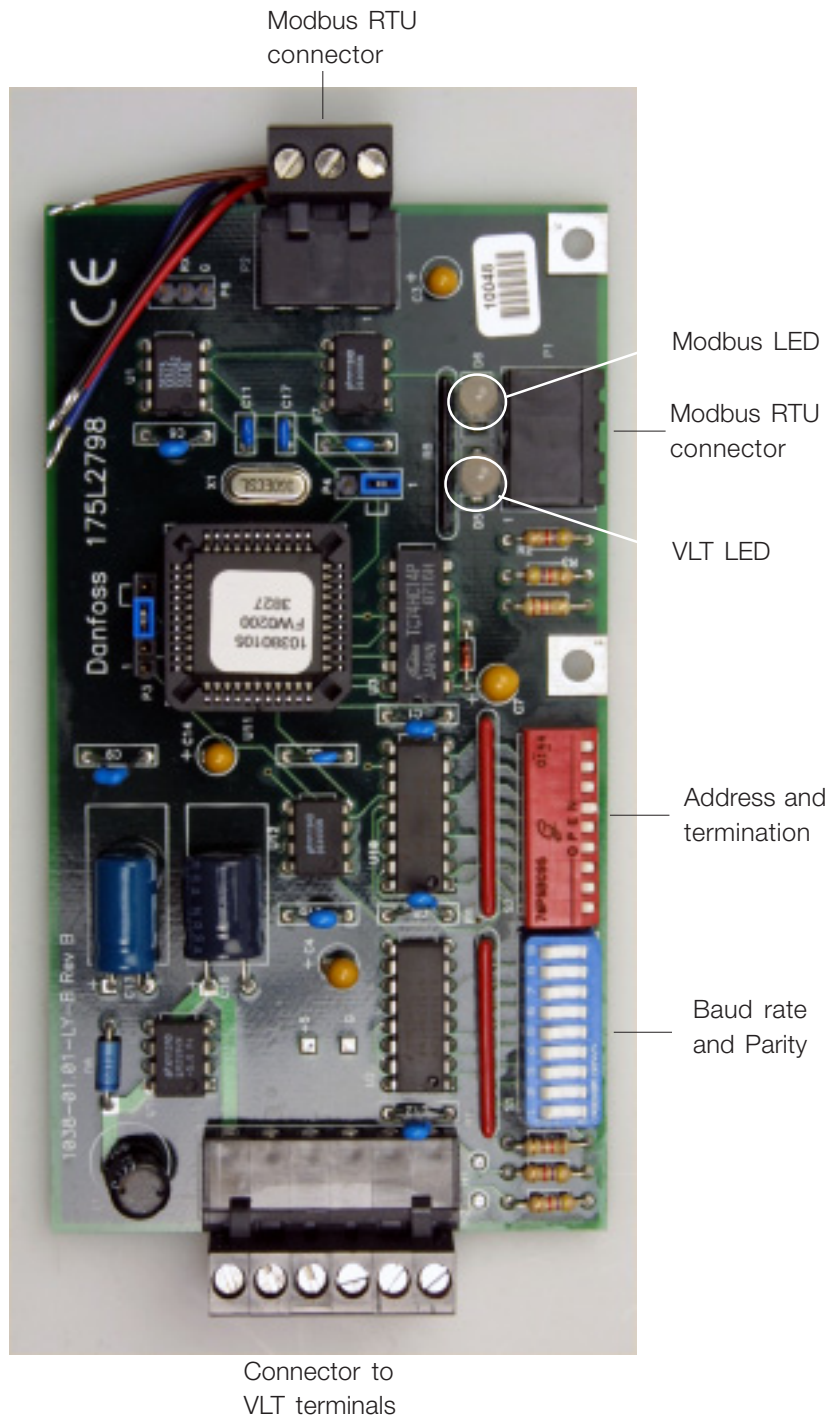
The Modbus RTU option card is a gateway that translates Modbus RTU telegrams to Danfoss FC protocol. As the FC protocol is integrated in all VLT frequency converters as standard, the Modbus RTU can interface to all our drives except for the DMS 300.

The Modbus RTU can be built into the control cassette of the following products:

- VLT 5000
- VLT 6000 HVAC
- VLT 8000 AQUA

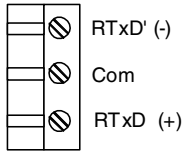
With VLT 5000 Flux, VLT 2800, FCM 300 the Modbus RTU card must be mounted into an external box.

The code number for the Modbus RTU option card is 175Z3362.

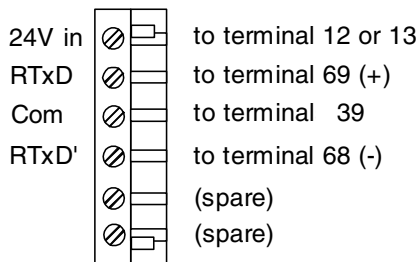


Modbus RTU data

■ Modbus RTU connection



■ Connector from Modbus RTU to VLT



■ LEDs

There are 2 LEDs on the Modbus RTU option card. Both LEDs use the same communication pattern:

- Flashing Green (1 Hz): Communication online (VLT LED) or receiving data (Modbus LED).
- Flashing Red (1 Hz): Communication time out
- Solid Red: Major fault, communication stopped

■ Baud rate and parity Dip switch

This Dip switch sets the baud rate and the parity on the Modbus network.

The baud rate can be set to 4800, 9600 (default) or 19200 baud by switches 1-3.

The parity bit can be set to None, Odd or Even (default) by switches 4-5.

See the Modbus manual for the Dip switch settings. Switches 6-8 are reserved switches.



9600 Baud Rate and No Parity Switch Settings

■ Address and termination Dip switch

This Dip switch sets the Modbus address and the termination.

The address can be set by switches 1-8. Default address is 1.

The termination can be set by switch 9. Default termination is ON.

See the Modbus manual for the Dip switch settings.



■ VLT parameter settings

As the Modbus RTU card interface to the built-in RS-485 FC profile the following parameters must be set in the VLT:

VLT 5000/VLT 2800/FCD 300/FCM 300:

Parameter 500 Address:	001
Parameter 501 Baud rate:	9600 baud
Parameter 512 Profile:	FC protocol

VLT 6000/VLT 8000

Parameter 500 Profile:	FC protocol
Parameter 501 Address:	001
Parameter 502 Baud rate:	9600 baud