

Danfoss MCA 194 VLT DeviceNet Converter



# Danfoss MCA 194 VLT DeviceNet Converter Installation Guide

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**Danfoss MCA 194 VLT DeviceNet Converter**



### Product Specifications:

- **Ordering number:** 130B5601
- Coated for easy mechanical adaptation
- Compatible with accessory adaptor plates with VLT 5000 mounting holes
- Supports DeviceNet network for industrial automation
- **Connectivity:** USB and RS485
- **Connector style:** DeviceNet

### Product Usage Instructions

#### Installation:

1. Ensure the correct fitting of the FC 302 in panels or on walls using accessory adaptor plates with VLT 5000 mounting holes.
2. Connect the device to the network using the provided DeviceNet connector.
3. Connect to a power source and ensure proper grounding.

#### Configuration:

1. Connect to a computer via USB or RS485 to access and configure FC 302 parameters.
2. No need to change the PLC's hardware configuration or rewrite the PLC program.

#### Maintenance:

1. Regularly check for updates or new features accessible through the provided connectors.
2. Ensure proper ventilation and cooling for optimal performance.

## FAQ:

- **Q: Can I use the FC 302 in existing systems without modifications?**

A: Yes, owners can easily exchange old drives with the new FC 302 in existing systems without the need for additional modifications to the cabinet or panel.

- **Q: What advantages does the FC 302 offer in terms of upgrade strategies?**

A: The FC 302 provides a high degree of flexibility in upgrade strategies, allowing for easy integration and compatibility with existing systems.

## **VLT® DeviceNet Converter MCA 194**

Keep the functionality of the VLT® 5000 with the DeviceNet option installed without changing the PLC program.

## **Introduction**

- VLT® DeviceNet Converter MCA 194 emulates a VLT® 5000 on the Device-Net network. All VLT® 5000 commands from the PLC are translated in the MCA194 to VLT® AutomationDrive FC 302 commands. This eliminates the need to re-write the PLC program and change the configuration.
- As a result, the investment in the PLC is retained, and no expensive and time-consuming re-programming is required. The downtime is limited to the time it takes to exchange the VLT® 5000 for the FC 302 with the MCA194 DeviceNet Converter option installed.
- For easy mechanical adaptation, accessory adaptor plates with VLT 5000 mounting holes ensure correct fitting of the FC 302 in panels or on walls.

## **Easy and compatible**

- Emulates all VLT® 5000 I/O Instances 20/70, 100/150, 101/151 and 102/152
- Explicit parameterization using VLT® 5000 parameter access is converted to FC 302 parameters.
- Communication using DeviceNet Class ID 0x04 and Class ID 0x64-0xC7
- VLT® 5000 optimized PLC program does not need to be changed when upgrading/retrofitting
- Spare parts stock can be reduced to FC302 parts only

## **devices worldwide**

DeviceNet is one of the world's leading device-level networks for industrial automation.

## **Features**

### **Efficient**

- Reuses the VLT® 5000 EDS file  
No need to change the PLC's hardware configuration
- Accepts the VLT® 5000 I/O Instances No need to rewrite the PLC program  
Mounts in an FC302 No need for VLT 5000 and FC 302 spare parts
- VLT® Motion Control Tool MCT10 Support via USB and RS485  
Full access of FC 302 parameters, where the new features of the FC 302 are accessible (e.g. Logging, scope)
- Same DeviceNet connector style

Installed bus connector can be reused or the new color-coded connector can be used.

## Save installation time with adaptor plates

- Reduce downtime and mounting labor costs when exchanging a VLT® 5000 with a VLT® AutomationDrive FC 302. Pre-drilled adaptor plates make it easy to mount a new FC 302 frequency converter in place of a VLT 5000.
- Not only does this reduce installation costs, but it also eliminates the need for additional modifications to the cabinet or panel where the new drive is installed.
- Owners can therefore exchange old drives with new drives in existing systems with ease. This is an advantage when a high degree of flexibility in upgrade strategies is required.



Adaptor plates for mechanical mounting a FC300 where a VLT® 5000 was mounted (130B0056, 130B0058)

## Contact Information

### Danfoss Drives

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## Documents / Resources

	<p><a href="#">Danfoss MCA 194 VLT DeviceNet Converter</a> [pdf] Installation Guide MCA 194, 130B5601, MCA 194 VLT DeviceNet Converter, VLT DeviceNet Converter, DeviceNet Converter, Converter</p>
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## References

-  [Global AC drive manufacturer - Danfoss Drives | Danfoss](#)
- [User Manual](#)

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