

Introduction letter Ethernet Master



Introduction

We are pleased to announce the release of the Danfoss Ethernet Master.

In the area of fieldbus communication, the trend unmistakable goes towards ethernet based solutions. This is the reason why Danfoss Drives has decided to introduce an ethernet solution that offers backwards compability to our existing drives.



The Ethernet Master is an interface between Ethernet networks and the Danfoss FC-bus (also known as: Standard bus). The Ethernet Master is an external device that can be mounted on a DIN-rail, only requiring 24V DC for supply. One Ethernet Master can control up to 16 drives, and is compatible with the following Danfoss VLT[®] frequency converters:

- VLT2800
- VLT 5000
- VLT 5000 flux
- VLT 6000
- FDC 300
- FC 300

The Ethernet Master is prepared for communication with a PLC master running ModbusTCP or Ethernet/IP.

The Ethernet Master also features an open TCP socket channel, where FC protocol telegrams are sent transparently from the ethernet network to the FC bus, and back.

Target market

The Ethernet Master will appeal to existing and new customers having the need for control and monitoring via ethernet.

Many customers will especially welcome the capability of remote monitoring and troubleshooting via WEB/Internet.

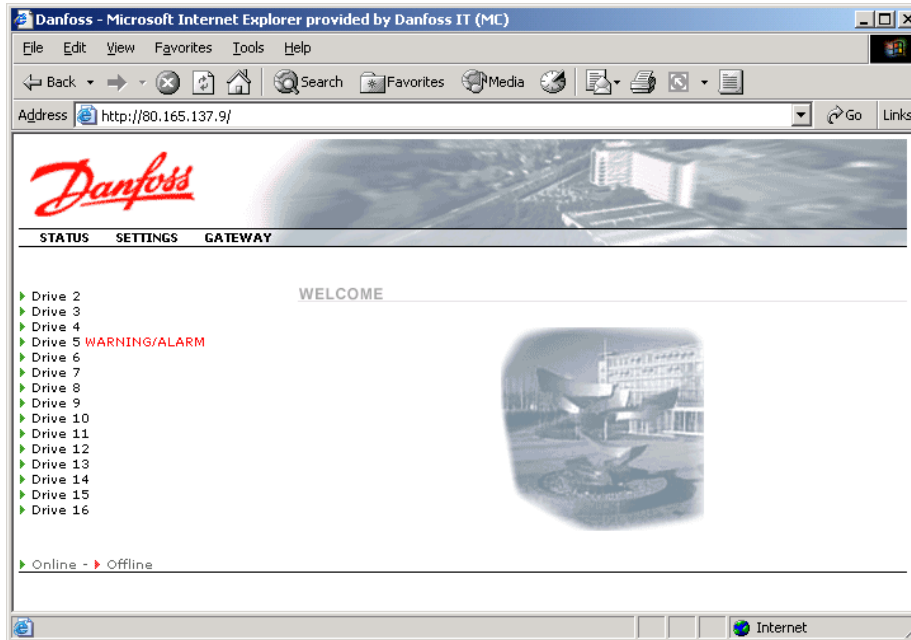
The solution is not suitable for systems that require high performance data exchange (see section: Performance).

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WEB interface

The Ethernet Master features a built-in WEB-server that can be accessed from any standard WEB-browser, on the ethernet network.



This feature allows the user to get a quick overview of the operating status of the attached drives, for quick and remote diagnosis and troubleshooting. For safety reasons the WEB interface offers read-only access to a selected number of parameters and is password protected.

Easy configuration

The Ethernet Master offers easy configuration. All settings on the FC-bus are auto-detected, and the Ethernet Master automatically recognizes the connected drives.

Performance

Although the Ethernet Master is capable of running up to 100 Mbps on the ethernet port, the serial FC-bus is the main "bottleneck" in the communication. Most VLT[®] frequency converters are only capable of running 9600 bps on the FC-bus.

The table below displays the approximate scan-cycles on the FC bus times for different baudrates.

Baudrate	Scan-cycle-time (PPO type 3)
9600 bps	(30ms x no. of drives)
38400 bps	(20ms x no. of drives)

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General information

Ethernet Master order number: **175N2584**

For more detailed technical information, please consult the Danfoss Ethernet Master Quick Guide: MG.90.H1.02.

Availability

The Ethernet Master will be available from week 50.

Pricing

Type	Product line	Product class	Stat. No
Options FC	09	047	09590

Prezzo di listino: 921,00 €.

Yours faithfully

Danfoss Drives A/S

Flemming Huusmann
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