



135U2214 [↗](#)

FC-102N355T4E20H2XGCXXXSXXXAXBXCXXXDX

Frequency Converter

FC-102N355T4E20H2XGCXXXSXXXAXBXCXXXDX

VLT® HVAC Drive FC-102

(N355) 355 KW / 500 HP,

Three phase, 380 - 480 VAC, (E20) IP20 / Chassis

RFI Filter

No brake chopper

Graphical Loc. Cont. Panel

Coated PCB, No Mains Option

Latest release std. SW.

Frame: E3H

No A Option, No B Option

No C1 option, No D option

Other options according to Model Code

Model code: FC-102N355T4E20H2XGCXXXSXXXAXBXCXXXDX

Danfoss VLT® HVAC Drive FC-102 Drive is dedicated to ventilation, heating, and refrigeration applications. With a wide range of powerful standard and optional features, the Drive provides the lowest overall cost of ownership.

[View Efficiency Data](#) [↗](#)

Product details

Characteristic	Value
Gross weight	212 Kilogram
Net weight	182 Kilogram
Volume	963.238 Liter
EAN	5710108284572
Product View (Switch)	Global (Standard)
Product Group	VLT® HVAC Drive FC-
Series	102
Power Rating	(N355) 355 KW / 500 HP
Phase	Three phase
Mains Voltage	380 - 480 VAC
Enclosure	(E20) IP20 / Chassis
RFI Filter	RFI Filter

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Product details

Characteristic	Value
Brake - Safe Stop	No brake chopper
LCP	Graphical Loc. Cont. Panel
Coating PCB	Coated PCB
Mains Option	No Mains Option
Adaptation A	Standard Cable Entries
Adaptation B	No adaptation
Software Release	Latest release std. SW.
Software Language Pack	Standard Language Pack
A Option	No A Option
B Option	No B Option
C0 Option MCO	No C0 option
C1 Option	No C1 option
C Option Software	No software option
D Option	No D option
Frame Size	E3H
Product Catalog	NO VIEW
Typecode Part 1	FC-102N355T4E20H2XGC
Typecode Part 2	XXXXXXXAXBXXXXDX
Power 110% (NO) [KW]	355
Height [mm]	1578,0
Width w/ no C options [mm]	507,0
Depth [mm]	482,0
Depth with Option A/B [mm]	482,0
kVA	456
Power Loss NO [W]	6928
Power Loss NO [W]	5910
Continuous Current (NO) [A]	658
Intermittent Current (NO) [A]	724
Continuous Current (NO) [A]	590
Intermittent Current (NO) [A]	649
Calculated Gross Weight [kg]	272.3

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Product details

Characteristic	Value
Calculated Net Weight [kg]	272
ECCN EU	Y901
ECCN US	3A999.a
Plant from Orderline	E701
Vendor	Cannot Determine Vendor
Recommended Factory	Cannot Determine Vendor
Modelcode01	FC-102N355T4E20H2XGC
Modelcode02	XXXXXXXAXBXXXXDX
Recommended Plant	ERR01

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store

Accessories



[130B0295](#)
sparepart/terminals accessory bag



[130B1070](#)
RS485 plug, FC series, 10 pcs
 10pcs RS485 connectors for FC-series.
 Product group: R



[130B1071](#)
6 Pole Connector, FC series, 10 pcs
 6-pole spring cage connectors 10 pcs



[130B1088](#)
LCP Blindcover, w/ Danfoss logo, IP20/21

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Accessories



[130B1110](#)

VLT® Relay Option MCB 105, uncoated

Relay extension for FC 100 and FC 300. Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.

Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A



[130B1117](#)

LCP Mounting Kit, w/ no LCP

The kit includes fasteners, 3m cable and gasket - There is no LCP included.



[130B1124](#)

VLT® Control Panel LCP 101, numeric

Numerical control unit for FC 100 and FC 300. Allows access to all device parameters. Quick menu for brief commissioning. Manual / auto switchover and alarm acknowledgment.



[130B1125](#)

VLT® General Purpose I/O MCB 101, unctd

MCB 101 - Advanced I / O option

Expands the number of freely programmable Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
- 2 analog inputs 0 - 10 V.
- 2 digital outputs NPN / PNP switchable 24 V
- 1 analog output 0/4 - 20 mA



[130B1135](#)

VLT® PROFINET MCA 120, uncoated

MCA 120 PROFINET interface

- Supports operation on PROFINET network with extensive properties
- DCP support for easy setting u. Communication parameters via the PLC
- On Board web-Page with Drive Status
- Parameterization with the MCT10 software
- 2 port version, reduced external hardware



[130B1137](#)

VLT® PTC Thermistor Card MCB 112, ctd

MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection 1 PTB-certified PTC thermistor input 1 switch-off signal for using the Safe Stop function 1 logic output for error identification

For more information, please use this link to visit the product page on Danfoss Product Store [↗](#)

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Accessories



[130B1143](#)

VLT® Analog I/O Option MCB 109, unctd

I / O expansion for FC 100, through modular technology easy to retrofit. Analog inputs/outputs galvanically isolated. Expands the analog inputs / outputs by:

3 analog inputs: 0 ... 10V / Pt1000 / Ni1000

3 analog outputs: 0 ... 10V

Time switch (RTC backup): lithium cell for 10 years



[130B1144](#)

VLT® BACnet MCA 109, uncoated

Open communication protocol dedicated to building automation

- Efficient integration of all parts of building automation equipment

- BACnet: standard for building automation worldwide

- International standard ISO 16484-5

- can be used in all sizes of building automation systems

- the Drive communicates easily with construction management systems running the BACnet protocol

- can be easily integrated into the network of existing control equipment

Product group: R1



[130B1170](#)

LCP Panel Mounting Kit

The kit includes fasteners and gasket. No LCP and no cable included.



[130B1202](#)

VLT® DeviceNet MCA 104, coated

MCA 104 - DeviceNet interface Option for FC300 and FC100 for mounting on the control card. Painted version



[130B1206](#)

VLT® LonWorks MCA 108, coated

Lonworks interface for FC 100. With modular technology Fieldbus option that can be easily retrofitted for the decentralized integration of the Frequency converter. The fieldbus option is based on the LonWorks Technology and corresponds to the LonMark Interoperability Guide. Painted version for harsh environments

Hardware: Module technology for option slot A

Transceiver: Free topology FTT 10

Transfer rate: 78kbit / s

Protocol: Echelon LonTalk

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Accessories



[130B1208](#)

1xMCB 107 24V DC coat w. mount. brackets

Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.



[130B1210](#)

VLT® Relay Option MCB 105, coated

Relay extension for FC 100 and FC 300.
Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.
Painted version for harsh environments, easy to retrofit thanks to modular technology.
Max. Load 240V AC (resistive): 2 A
Max. Load 240V AC (Cos Phi 0.4): 0.2 A
Max. Load 24V DC (ohmic): 1 A
Max. Load 24V DC (inductive): 0.1 A



[130B1212](#)

VLT® General Purpose I/O MCB 101, ctd

MCB 101 - Advanced I / O option Expands the number of freely programmable Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
- 2 analog inputs 0 - 10 V.
- 2 digital outputs NPN / PNP switchable 24 V
- 1 analog output 0/4 - 20 mA with reinforced coating



[130B1243](#)

VLT® Analog I/O Option MCB 109, coated

I / O extension for FC 100, easy to retrofit thanks to modular technology. Analog inputs / outputs galvanically isolated. Expands the analog inputs / outputs by: 3 analog inputs: 0 ... 10V / Pt1000 / Ni1000 3 analog outputs: 0 ... 10V Time switch (RTC backup): lithium cell for 10 years

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Accessories



[130B1244](#)

VLT® BACnet MCA 109, coated

A. Device profile: Application-Specific-Controller (B-ASC)

Supported objects: Analog Input, Analog Output, Analog Value, Binary Input, binary output, Binary Value, Device, Multi-State Output, Notification Class

Protocol: Building automation world standard ISO 16484-5

Data Link Layer: MS / TP 9600, 19200, 38400, 76800

Data sharing: ReadProperty-B, DS-RP-B ReadPropertyMultiple-B, DS-RPM-B WriteProperty-B, DS-WP-B WritePropertyMultiple-B, DS-WPM-B Alarm and Notification Internal-B, AE-N-I-B

Event Notification: ACK-B, AE-ACK-B Information-B, AE-INFO-B Device and Network Dynamic Device Binding-A, DM-DDB-A

Management: Dynamic Device Binding-B, DM-DDB-B



[130B1385](#)

VLT® Profibus DP V1 MCA101, unctd 5pcs



[130B1386](#)

VLT® Profibus DP V1 MCA 101, ctd, 5pcs

Image coming soon

[130B4847](#)

extension cable for lcp+communication



[134B0460](#)

LCP 103 Wireless Communication Panel

With VLT® Wireless Communication Panel LCP 103 you can communicate with MyDrive® Connect - an app that can be downloaded for iOS and Android based smartphones. MyDrive® Connect makes commissioning easy, monitor and maintain tasks on your frequency converter. VLT® Wireless Communication Panel LCP 103 shows the current status of the drive (On, Warning, Alarm, Wifi connection) via built-in LED. Detailed information is also available using MyDrive® Connect. Here do you have access to i.a. status, menu and alerts. You can also see graphs over the latest available data.

The new VLT® Wireless Communication Panel LCP 103 allows you to wireless communication to the following drives:

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® AQUA Drive FC 202
- VLT® AutomationDrive FC 302

[!] Note!

LCP 103 only works on frequency converters produced in 2018 (White USB stik).

Product group: R1

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Accessories



[134B1586](#)

VLT® BACNET/IP MCA125

The VLT® BACnet/IP MCA 125 option is a plug-and-play solution that optimizes the use of VLT® HVAC Drive together with building management systems using the BACnet/IP protocol or running BACnet on Ethernet.

The embedded three-port managed switch of the VLT® BACnet/IP MCA 125 option comprises two external and one internal Ethernet port. This switch allows the use of line structure for the Ethernet cabling. In modern installation this is becoming increasingly attractive

Image coming soon

[134B1992](#)

Control Terminals w/ screw connections



[134B5223](#)

Remote LCP unit, 3m

Remote mounting kit for LCP with cover for outdoor mounting with 3 m (10 ft) cable

Image coming soon

[134B5224](#)

Remote LCP unit, 5m

Remote mounting kit for LCP with cover for outdoor mounting with 5 m (16 ft) cable

Image coming soon

[134B5225](#)

Remote LCP unit, 10m

Remote mounting kit for LCP with cover for outdoor mounting with 10 m (33 ft) cable



[134B5925](#)

Pressure Transmitter

VLT PTU 025 pressure transmitter unit for external attachment to frequency converters VLT HVAC Drive FC-102 IP55 / IP66 on one the cable entries suitable for M25 - with four pressure sensors 2x 0-500 Pa; 1x 0-1000 Pa; 1x 0-2500 Pa

- eight hose connections D 5mm

- Can be positioned 360 ° around the longitudinal axis

Software version of the frequency converter FC-102 at least 5.20 am required

Mounting thread: M25

Dimensions LxW: 155mm x 38mm (Length with hose support rail 260.5mm)

Degree of protection: IP66

Image coming soon

[134B6880](#)

VLT Progr. Contr. MCA 301, coated

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Accessories

Image
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[134B6883](#)

VLT Progr. Contr. MCB 301, coated



[134B8492](#)

Transducer 0-10g, 4-20mA; HS-22B50



[134B8493](#)

Transducer 0-25mm/s RMS 4-20mA

CBM Transducer 0-25mm/s RMS 4-20mA



[134B8494](#)

Transducer w, temp 0-25mm/s RMS 4-20mA



[134B8496](#)

CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.

Image
coming
soon

[134B8497](#)

Cable assy, M12 female connec.10m screen



[134B8814](#)

VLT® PROFINET MCA120 coated 5pcs



[134B9400](#)

Pressure Sensor 7245T 2x500Pa & PT1000

DUAL AIR PRESSURE SENSOR ±500PA Temperature drift: ± 0.1% per °C/°F

Zero point offset: ± 10 % of measuring range

Above-/below-pressure: max. ± 50 kPa / ± 200 inWC

Power: 24VAC (± 20%) & > > > 0,2W / 15...36VDC

Operation temperature: -30...+70 °C / -22...+158 °F

Media temperature -20...+50 °C / -4...+122 °F

T2-IP65 plastic housing with two M16 cable glands one M12 for temperature

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories



[134B9401](#)

Pressure Sensor 7249T 500/7000Pa & PT1000

DUAL AIR PRESSURE SENSOR ± 500 PA Temperature drift: ± 0.1 % per $^{\circ}\text{C}$ #
 $^{\circ}\text{F}$

Zero point offset: ± 10 % of measuring range

Above- # below-pressure: max. ± 50 kPa / ± 200 inWC

Power: 24VAC ($\pm 20\%$) <0,2W / 15...36VDC

Operation temperature: $-30...+70$ $^{\circ}\text{C}$ / $-22...+158$ $^{\circ}\text{F}$

Media temperature $-20...+50$ $^{\circ}\text{C}$ / $-4...+122$ $^{\circ}\text{F}$

T2-IP65 plastic housing with two M16 cable glands one M12 for temperature

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



[134B9402](#)

Pressure Sensor 7247T 2x7000Pa & PT1000

DUAL AIR PRESSURE SENSOR ± 7000 PA Temperature drift: ± 0.1 % per $^{\circ}\text{C}$ #
 $^{\circ}\text{F}$

Zero point offset: ± 10 % of measuring range

Above- # below-pressure: max. ± 50 kPa / ± 200 inWC

Power: 24VAC ($\pm 20\%$) <0,2W / 15...36VDC

Operation temperature: $-30...+70$ $^{\circ}\text{C}$ / $-22...+158$ $^{\circ}\text{F}$

Media temperature $-20...+50$ $^{\circ}\text{C}$ / $-4...+122$ $^{\circ}\text{F}$

T2-IP65 plastic housing with two M16 cable glands one M12 for temperature

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



[134B9404](#)

Pressure Sensor 7225 2x500Pa, Analog

DUAL AIR PRESSURE SENSOR ± 500 PA ± 500 PA, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ($\varnothing 6$ mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0-10 V or 4...20 mA. Pressure range selection: ± 500 Pa - 0...100Pa / 200Pa / 300Pa / 500Pa

Accuracy: 500 Pa typical ± 13 Pa

Zero point offset: ± 10 % of measuring range

Above- # below-pressure: max. ± 50 kPa

Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance: Ra (ohms) = 25...450 Ohm (at I output)

Load resistance: RL > 15 kOhm (at U output)

Operation / Media temperature: $-20...+50$ $^{\circ}\text{C}$ / $-4...+122$ $^{\circ}\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories



[134B9405](#)

Pressure Sensor 7229 500/7000Pa, Analog

DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ $\pm 7000\text{Pa}$, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose (\varnothing 6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA.

Pressure range selection: $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$

Pressure range selection: $\pm 7000\text{ Pa} - 0...1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

Accuracy: 500 Pa typical $\pm 13\text{ Pa}$

Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$

Zero point offset: $\pm 10\%$ of measuring range

Above- # below-pressure: max. $\pm 50\text{ kPa}$

Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance: R_a (ohms) = 25...450 Ohm (at I output)

Load resistance: R_L > 15 kOhm (at U output)

Operation / Media temperature: $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



[134B9406](#)

Pressure Sensor 7227 2x7000Pa, Analog

DUAL AIR PRESSURE SENSOR $\pm 7000\text{Pa}$ $\pm 7000\text{Pa}$, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose (\varnothing 6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA.

Pressure range selection: $\pm 7000\text{ Pa} - 0...1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$

Zero point offset: $\pm 10\%$ of measuring range

Above- # below-pressure: max. $\pm 50\text{ kPa}$

Power: 24VAC/DC ($\pm 10\%$) <1,3W,

Output: automatically switching 0 -10 V # 4...20 mA

Working resistance: R_a (ohms) = 25...450 Ohm (at I output)

Load resistance: R_L > 15 kOhm (at U output)

Operation / Media temperature: $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$

T2-IP65 plastic housing with one M16 cable gland

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories



[134B9407](#)

Airflow Sensor KFTF Temp & Humidity

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

Calibratable duct humidity and temperature sensor KFTF-T3 ($\pm 2.0\%$) with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection and a plastic sinter filter (exchangeable). Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80\text{ }^{\circ}\text{C}$) inside a tube, including various parameters in the humidity measurement. The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices.

International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / $-35...+80\text{ }^{\circ}\text{C}$ (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical $\pm 2.0\%$ (20...80 % RH) at $+25\text{ }^{\circ}\text{C}$, otherwise $\pm 3.0\%$

Deviation, temperature: typical $\pm 0.2\text{ K}$ at $+25\text{ }^{\circ}\text{C}$

Zero point offset: $\pm 10\%$ RH (humidity) / $\pm 5\text{ }^{\circ}\text{C}$ (temperature)

Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

Operation temperature: $-30...+70\text{ }^{\circ}\text{C}$ / $-22...+158\text{ }^{\circ}\text{F}$

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

Image
coming
soon

[134B9408](#)

Airflow Sensor 8148 Temp&Humidity&500Pa

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS $\pm 500\text{ PA}$ -MB

Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80\text{ }^{\circ}\text{C}$) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. $\pm 500\text{ Pa}$) with connection nozzles for pressure hose ($\varnothing 6\text{ mm}$). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / $-35...+80\text{ }^{\circ}\text{C}$ / $-31... +176\text{ }^{\circ}\text{F}$ (temperature)

Medium: clean air and non-aggressive, non-combustible gases
Deviation, humidity: typical $\pm 2.0\%$ (20...80 % RH) at $+25\text{ }^{\circ}\text{C}$ / $+77\text{ }^{\circ}\text{F}$, otherwise $\pm 3.0\%$
Deviation, temperature: typical $\pm 0.2\text{ K}$ at $+25\text{ }^{\circ}\text{C}$ / $\pm 0.4\text{ }^{\circ}\text{F}$ at $+77\text{ }^{\circ}\text{F}$

Pressure range: $\pm 500\text{ Pa}$

Accuracy: 500 Pa/2.0 inWC: typical $\pm 13\text{ Pa}$ at $+25\text{ }^{\circ}\text{C}$ / $\pm 0.05\text{ inWC}$ at $+77\text{ }^{\circ}\text{F}$ Above- #

below-pressure: max. $\pm 50\text{ kPa}$ Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <0,2W

Operation temperature: $-30...+70\text{ }^{\circ}\text{C}$ / $-22...+158\text{ }^{\circ}\text{F}$

Media temperature $-20...+50\text{ }^{\circ}\text{C}$ / $-4...+122\text{ }^{\circ}\text{F}$ IP65 plastic housing two M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Accessories

Image
coming
soon

[134B9409](#)

Airflow Sensor 8147 Temp&Humidity&7000Pa

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ± 7000 PA-MB
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80$ °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 7000 Pa) with connection nozzles for pressure hose ($\varnothing 6$ mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / $-35...+80$ °C / $-31... +176$ °F (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at $+25$ °C/ $+77$ °F, otherwise ± 3.0 %

Deviation, temperature: typical ± 0.2 K at $+25$ °C / ± 0.4 °F at $+77$ °F

Pressure range: ± 7000 Pa

Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at $+25$ °C / ± 0.12 inWC at $+77$ °F

Above- # below-pressure: max. ± 50 kPa

Power: 24VAC (± 20 %) / 15...36VDC - 24DC <0,2W

Operation temperature: $-30...+70$ °C / $-22...+158$ °F

Media temperature $-20...+50$ °C / $-4...+122$ °F IP65 plastic housing two

M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



[134B9410](#)

Wall Sensor ATM2 Temperature

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB
Calibratable outside temperature sensor ATM2, PT1000 measure temperature ($-50...+150$ °C), with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M20 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

Sensor type: PT1000 class B (DIN EN 60751)

Measuring range: $-50...+150$ °C / $-31... +176$ °F

Deviation: typical ± 0.2 K at $+25$ °C / ± 77 °F

Zero point offset: ± 10 °C / ± 50 °F

Ambient temperature: Measuring transducer $-30...+70$ °C / $-22... +158$ °F

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC (± 20 %) / 15...36VDC - 24DC <1,2W

Operation temperature: $-30...+70$ °C / $-22...+158$ °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in

For more information, please use this link to visit the product page on Danfoss Product Store

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[134B9411](#)

Wall Sensor AFTF Temp & Humidity

ON-WALL- HUMIDITY- AND TEMPERATURE SENSORS AFTF-MB

Calibratable outside humidity and temperature sensor AFTF, detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C), including various parameters in the humidity measurement. Applied in clean air and non-aggressive, dust-free environment. With a Modbus connection in a resistant IP65 plastic housing and M20 cable gland for cable connection, with quick-locking screws and an exchangeable plastic sinter filter. International SI units (default) can be changed to imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80 °C (temperature)

Medium: clean air and non-aggressive, non-combustible gases

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25 °C, otherwise ± 3.0 %

Deviation, temperature: typical ± 0.4 K at +25 °C / ± 77 °F

Zero point offset: ± 10 % RH (humidity) / ± 5 °C (temperature)

Power: 24VAC (± 20 %) / 15...36VDC - 24DC <1,2W

Operation temperature: -30...+70 °C / -22...+158 °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in



[134B9412](#)

Airflow Sensor TF65 PT1000 Temperature

DUCT TEMPERATURE SENSOR TF 65

The TF 65 temperature measuring transducer is a PT1000 class B resistance sensor with passive output. Measuring range from -30...+150 °C. In a resistant IP67 plastic housing and M16 cable gland for cable connection and a straight protective measuring tube and a mounting flange.

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at 0°C $\pm 0,3$ K

Measuring range: -30...+150 °C / -22...+302 °F

Ambient temperature: -20...+100 °C / -4...+212 °F

Testing current: < 0.6 mA

Insulating resistance: 100 M#, at +20 °C (500V DC)

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571), \varnothing 6 mm, inserted length = 300 mm / 11.8 in

T1-IP67 plastic housing with a M16 cable glands and a mounting flange.

Housing dimensions: 72 x 64 x 37.8 mm / 2.83 x 2.52 x 1.49 in

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[134B9413](#)

Airflow Sensor KLQ CO2 & Air Quality

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas

temperature dependence: ± 5 ppm pro $^{\circ}\text{C}$ or $\pm 0,5$ % of measured value pro

$^{\circ}\text{C}$ (whichever is higher) pressure dependence: ± 0.13 % per mm Hg

Medium: clean air and non-aggressive, non-combustible gases

Power: 24VAC/DC ($\pm 10\%$) 24DC <1,6W

Operation temperature: $-10...+60$ $^{\circ}\text{C}$ / $14...+140$ $^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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[134B9414](#)

Antifreeze Thermostat FS20, 0/+15C

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

Electronic frost protection thermostat or frost monitor with switching relay output, continuous temperature and valve output (summation output 0–10 V) and control and cascading output (0–10 V), optionally with connection for a heating element. A IP65 resistant plastic housing with display with the actual temperature, measuring range, overrange/underrange of the set switch point (frost protection temperature) and alarm indicator for "frost" or "error" (capillary breakage, overvoltage/undervoltage), quick-locking screws and a fully active sensor rod made of copper. The delivery scope includes a set of MK-05-K mounting clamps for expert attachment of the sensor rod.

Measuring range: 0...+15 °C / 32...+59 °F

Accuracy: typical ± 1 K (at +10 °C)

Sensor type: 3m Copper rod active along the entire sensor length, min. response length of 25 cm

Input: 1 x 0 -10 V control input DDC

1 x 0 -10 V output valve (frost signal with control voltage and cascading)

1 x potential-free changeover contact (24 V), range of adjustment 0...+15 °C

Current consumption: max. 100 mA at 24 V DC

Load resistance: RL > 50 kOhm

Ambient temperature: –15...+50 °C / 5...+122 °F (Housing) –20...+60 °C / –4...+140 °F Sensor and capillary tube > 20 cm from the housing.

Power: 24VAC/DC (± 10%) 24DC < 2,4W

T2-IP65 plastic housing with three-line display 70x40 mm (WxH), a M16 cable glands and MK-05-K mounting clamps.

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



[175N2584](#)

VLT® EtherNet/IP Modbus TCP gateway

Image coming soon

[175U0009](#)

Mounting bracket Kit, 216 x 30 x 18mm

Mounting angle for flatpack resistor 200W



[175Z0929](#)

LCP Cable, 3m

Cable for control panel (LCP), 3 meters Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

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Image coming soon

[176F3924](#)
BACK-CH COOLING KIT,N3R,E3h,600mm RITTAL

Image coming soon

[176F4055](#)
USB service port extension D3h, E3h, E4h



[176F4106](#)
Fieldbus plate, highpower, IP20, 10 pcs

Image coming soon

[176F6606](#)
Kit Cooling Bottom In-Top Out 600mm E3h
Kit Cooling Bottom In-Top Out 600mm E3h

Image coming soon

[176F6607](#)
Kit Cooling Bottom In-Top Out 800mm E3h
Kit Cooling Bottom In-Top Out 800mm E3h

Image coming soon

[176F6610](#)
Kit Cooling Back In-Back Out E3h

Image coming soon

[176F6612](#)
Kit Cooling Bottom In-Back Out 600mm E3h

Image coming soon

[176F6613](#)
Kit Cooling Bottom In-Back Out 800mm E3h



[176F6615](#)
Kit Cooling Back In-Top Out E3h



[176F6746](#)
KIT, WIRE CLAMP, IP20, E3H

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Image coming soon

[176F6764](#)
kit, tall plinth, e1, p4001
kit, tall plinth, e1, p4001



[176F8437](#)
spare,tool,pwr pca sig brd,vlt5122-5302
VLT5122-5302, VLT6152-5352



[185B0009](#)
FC-102 Demo Case - 120 Vac Supply
Elevate your sales presentations and on-site training with this high-impact, portable VFD demo kit. Showcasing the Danfoss VLT® FC 102 drive, this suitcase provides a dynamic, hands-on experience for demonstrating the benefits of variable frequency drives in motor control. The integrated flywheel and controls simulate a mechanical load, offering a realistic, visual representation of VFD capabilities 120VAC Supply (Standard outlet in North America) Dimensions: 24.75 in. x 19.50 in. x 12 in. (63 cm x 50 cm x 30 cm)

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