



134H5175

FC-102P1K1T7E20H4UGCXXSXXXXAXBXXXXDX

Frequency Converter
 FC-102P1K1T7E20H4UGCXXSXXXXAXBXXXXDX
 VLT® HVAC Drive FC-102
 (P1K1) 1.1 KW / 1.5 HP, Specific Ratings: 1.1kW@525- 550V, 1.5HP@575V, 1.1kW@690V
 Three phase, 525 - 690 VAC *, (E20) IP20 / Chassis
 RFI class A1 (C2)
 Brake chopper + Safe stop
 Graphical Loc. Cont. Panel
 Coated PCB, No Mains Option
 Latest release std. SW.
 Frame: A3
 No A Option, No B Option
 No C1 option, No D option

Other options according to Model Code

Model code: FC-102P1K1T7E20H4UGCXXSXXXXAXBXXXXDX

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

| | | |
|-------------------------------|--------|----------------------------|
| Gross weight | | 8.066 Kilogram |
| Net weight | | 7.06 Kilogram |
| Volume | | 27.246 Liter |
| EAN | | 5710107702183 |
| Product View (Switch) | GLBL | Global (Standard) |
| Product Group | FC- | VLT® HVAC Drive FC- |
| Series | 102 | 102 |
| Power Rating | P1K1 | (P1K1) 1.1 KW / 1.5 HP |
| Phase | T | Three phase |
| Mains Voltage | 7 | 525 - 690 VAC * |
| Possible rating issue | WARN01 | Possible Rating Issue: |
| Enclosure | E20 | (E20) IP20 / Chassis |
| RFI Filter | H4 | RFI class A1 (C2) |
| Brake - Safe Stop | U | Brake chopper + Safe stop |
| LCP | G | Graphical Loc. Cont. Panel |
| Coating PCB | C | Coated PCB |
| Mains Option | X | No Mains Option |
| Adaptation A | X | Standard Cable Entries |
| Adaptation B | X | No adaptation |
| Software Release | SXXX | Latest release std. SW. |
| Software Language Pack | X | Standard Language Pack |
| A Option | AX | No A Option |
| B Option | BX | No B Option |

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Product Detail | FC-102P1K1T7E20H4UGCXXXSXXXAXBXXXXX

PRODUCT DETAILS

| | | |
|--------------------------------------|---------|-------------------------|
| C0 Option MCO | CX | No C0 option |
| C1 Option | X | No C1 option |
| C Option Software | XX | No software option |
| D Option | DX | No D option |
| Frame Size | A3 | A3 |
| Product Catalog | NO_VIEW | NO VIEW |
| Typecode Part 1 | | FC-102P1K1T7E20H4UGC |
| Typecode Part 2 | | XXXSXXXAXBXXXXX |
| Power 110% (NO) [KW] | 1.1 | 1.1 |
| Height [mm] | 268,0 | 268,0 |
| Width w/ no C options [mm] | 130,0 | 130,0 |
| Width w/ two C options [mm] | 190,0 | 190,0 |
| Depth [mm] | 205,0 | 205,0 |
| Depth with Option A/B [mm] | 220,0 | 220,0 |
| kVA | 1.91 | 1.91 |
| Power Loss NO [W] | 44 | 44 |
| Power Loss NO [W] | 44 | 44 |
| Continuous Current (NO) [A] | 2.1 | 2.1 |
| Intermittent Current (NO) [A] | 2.31 | 2.31 |
| Continuous Current (NO) [A] | 1.6 | 1.6 |
| Intermittent Current (NO) [A] | 1.76 | 1.76 |
| Power Rating at 525-550V | 1.1kW | 1.1kW |
| Power Rating at 575V | 1.5HP | 1.5HP |
| Power Rating at 690V | 1.1kW | 1.1kW |
| Calculated Gross Weight [kg] | | 8.066 |
| Calculated Net Weight [kg] | | 7.06 |
| ECCN EU | Y901 | Y901 |
| ECCN US | 3A999.a | 3A999.a |
| Vendor | ERR01 | Cannot Determine Vendor |
| Recommended Factory | ERR01 | Cannot Determine Vendor |
| Modelcode01 | | FC-102P1K1T7E20H4UGC |
| Modelcode02 | | XXXSXXXAXBXXXXX |
| Recommended Plant | ERR01 | ERR01 |

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

**130B0058****Adapter Plate, 415x279mm**

With the adapter plate you can replace a VLT® 3000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 3000, and as there will be no drilling there will be no swarf harming the electric components.

It is possible to install one FC drive with or without C Option in the same place as one VLT® 3000.

The following VLT® 3000 can be mounted on the Adapter Plate 130B0058:

IP20: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP21: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP54: 220Volt VLT3002-3004 with no brake, 220Volt VLT3004 with brake, 380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3002-3006 with no brake

**130B0184****Adapter Plate, 395x130mm**

With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components.

The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0184:

IP20 Book: 200-240Volt VLT5004-5006/VLT6004-6005, 380/500Volt VLT5006-5011, 380-460Volt VLT6006-6011

**130B0185****Adapter Plate, 395x220mm**

With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components.

The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0185:

IP20 Compact: 200-240Volt VLT5001-5006, 380/500Volt VLT5001-5011

IP20/NM1: 200-240Volt VLT6002-6005, 380/460Volt VLT6002-6011, 380-480Volt VLT8006-8011, 550-600Volt VLT 5001-5011, 525-690Volt VLT8002-8011

**130B0295****sparepart/terminals accessory bag****130B1022****fc-300 spare part/acc. bag a2 + a3 encl.**

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



130B1070 [🔗](#)

RS485 plug, FC series, 10 pcs

10 pcs 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



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.



130B1123 [🔗](#)

IP 21/Type 1 conversion kit, A3

Cover for housing size A3, type 1 MCF 101 NEMA1 / IP21



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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



130B1133 [🔗](#)

IP 21/Type 1 conversion kit, top, A3

and bottom please order 130B1123

This is only the top part of the kit - If you need a kit with both top



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



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.

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

**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

**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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



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



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 Icp+communication



x10

130B7401 [🔗](#)

NEMA 1 Conversion Kit, Top, 10 pcs, A3



130B7531 [🔗](#)

Mounting Kit f. C Option, 60mm, A2/A3

VLT® Mounting kit for enclosure sizes A2 and A3. Must be used when retrofitting 1 pc. of the following MCO options, together with MCB 113 Extended relay card (Located in MCO slot):

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

Product group: R

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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

134B1976 [🔗](#)

Accessory bag for frame A1-A3 w. brake

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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

Image
coming
soon**134B6880** [🔗](#)**VLT Progr. Contr. MCA 301, coated**Image
coming
soon**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 $\pm 500\text{Pa}$ Temperature drift: $\pm 0.1\%$ per $^{\circ}\text{C}/^{\circ}\text{F}$ Zero point offset: $\pm 10\%$ of measuring rangeAbove-/below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$ Power: 24VAC ($\pm 20\%$) & $15\text{...}36\text{VDC}$ Operation temperature: $-30\text{...}+70\text{ }^{\circ}\text{C}$ / $-22\text{...}+158\text{ }^{\circ}\text{F}$ Media temperature $-20\text{...}+50\text{ }^{\circ}\text{C}$ / $-4\text{...}+122\text{ }^{\circ}\text{F}$

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

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$ **For more information, please use this link to visit the product page on Danfoss Product Store** [🔗](#)

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

**134B9401** [🔗](#)**Pressure Sensor 7249T 500/7000Pa & PT1000**

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

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

Above- # below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$

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

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

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

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 $\pm 7000\text{Pa}$ Temperature drift: $\pm 0.1\%$ per $^{\circ}\text{C}$ # $^{\circ}\text{F}$

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

Above- # below-pressure: max. $\pm 50\text{ kPa}$ / $\pm 200\text{ inWC}$

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

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

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

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 $\pm 500\text{Pa}$ $\pm 500\text{Pa}$, 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 ($\varnothing 6\text{ mm}$) 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...100Pa / 200Pa / 300Pa / 500Pa

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

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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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: $\pm 500\text{ Pa} - 0 \dots 100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ Pressure range selection: $\pm 7000\text{ Pa} - 0 \dots 1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

Accuracy: 500 Pa typical $\pm 13\text{ Pa}$ Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$ Zero point offset: $\pm 10\%$ of measuring rangeAbove- # 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: $-20 \dots +50\text{ }^\circ\text{C} / -4 \dots +122\text{ }^\circ\text{F}$

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: $\pm 7000\text{ Pa} - 0 \dots 1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$ Accuracy: 7000 Pa typical $\pm 105\text{ Pa}$ Zero point offset: $\pm 10\%$ of measuring rangeAbove- # 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: $-20 \dots +50\text{ }^\circ\text{C} / -4 \dots +122\text{ }^\circ\text{F}$

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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

Image
coming
soon**134B9409****Airflow Sensor 8147 Temp&Humidity&7000Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-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 (Ø 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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

**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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories

**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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



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



175U0086

Mount. Brack.: Footprint, A3, f.2 br.res

Back frame A3 for 2 brake resistors



175U0088

Mounting brackets: Footprint, A1



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

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



176F4106 [🔗](#)

Fieldbus plate, highpower, IP20, 10 pcs



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)

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.