



131U9127 [🔗](#)

FC-102P45KT4E20H1TNXXXXSXXXXAXBXXXXDX

Frequency Converter
 FC-102P45KT4E20H1TNXXXXSXXXXAXBXXXXDX
 VLT® HVAC Drive FC-102
 (P45K) 45 KW / 60 HP,
 Three phase, 380 - 480 VAC, (E20) IP20 / Chassis
 (H1) RFI Class A1/B (C1)
 Safe Stop
 Numerical Loc. Cont. Panel
 Not coated PCB, No Mains Option
 Latest release std. SW.
 Frame: C3
 No A Option, No B Option
 No C1 option, No D option

Other options according to Model Code

Model code: FC-102P45KT4E20H1TNXXXXSXXXXAXBXXXXDX

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		38.52 Kilogram
Net weight		35.67 Kilogram
Volume		178.336 Liter
EAN		5710107006762
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® HVAC Drive FC-
Series	102	102
Power Rating	P45K	(P45K) 45 KW / 60 HP
Phase	T	Three phase
Mains Voltage	4	380 - 480 VAC
Enclosure	E20	(E20) IP20 / Chassis
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	T	Safe Stop
LCP	N	Numerical Loc. Cont. Panel
Coating PCB	X	Not 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
C0 Option MCO	CX	No C0 option
C1 Option	X	No C1 option

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Product Detail | FC-102P45KT4E20H1TNXXXXXXXAXBXXXXDX

PRODUCT DETAILS

C Option Software	XX	No software option
D Option	DX	No D option
Frame Size	C3	C3
Product Catalog	NO_VIEW	NO VIEW
Typecode Part 1		FC-102P45KT4E20H1TNX
Typecode Part 2		XXXXXXXXAXBXXXXDX
Power 110% (NO) [KW]	45	45
Height [mm]	550,0	550,0
Width w/ no C options [mm]	308,0	308,0
Depth [mm]	333,0	333,0
Depth with Option A/B [mm]	333,0	333,0
kVA	62.4	62.4
Power Loss NO [W]	843	843
Power Loss NO [W]	843	843
Continuous Current (NO) [A]	90	90
Intermittent Current (NO) [A]	99	99
Continuous Current (NO) [A]	80	80
Intermittent Current (NO) [A]	88	88
Calculated Gross Weight [kg]		38.52
Calculated Net Weight [kg]		35.67
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Vendor	ERR01	Cannot Determine Vendor
Producing plant	ERR01	Cannot Determine Vendor
Modelcode01		FC-102P45KT4E20H1TNX
Modelcode02		XXXXXXXXAXBXXXXDX
Delivering plant	ERR01	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

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Accessories



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



130B1102 [🔗](#)
VLT® DeviceNet MCA 104, uncoated
 Robust, efficient data handling thanks to advanced Producer/Consumer technology. ODVA's strong conformance testing policies ensure products are interoperable, and the AC-drive profile, supported using I/O instance 20/70.21/71, secures compatibility to existing systems.



130B1106 [🔗](#)
VLT® LonWorks MCA 108, uncoated
 Developed for building automation, it enables communication between individual units in the same system (peer-to-peer) and supports decentralizing of control. No need for main station (master-follower). Units receive signals directly. Supports Echelon free-topology interface (flexible cabling and installation) and embedded I/Os and I/O options (easy implementation of decentral I/Os). Sensor signals can quickly be moved to another controller using bus cables. Certified as compliant with LonMark ver. 3.4 specifications.



130B1107 [🔗](#)
VLT® Control Panel LCP 102
 Graphic operating unit LCP102 Illuminated graphic display with plain text. Supports all languages and characters. Quick menu for brief commissioning. Saving and copying parameter sets. Online help for each function



130B1108 [🔗](#)
VLT® 24V DC Supply MCB 107, uncoated
 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.



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.

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Accessories

**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
-

**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.

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Accessories



130B1191 [🔗](#)
IP 21/Type 1 conversion kit, C3
 IP21 cover for enclosure C3.
 Product group: R1



130B1192 [🔗](#)
IP21 conversion kit, top, C3
 IP21 top cover for enclosure C3
 Product group: R1



130B1385 [🔗](#)
VLT® Profibus DP V1 MCA101, unctd 5pcs



130B1387 [🔗](#)
5xMCB107 24VDC no coat w.out mount brack



130B4170 [🔗](#)
Back plate IP20/Chassis, C3
 Back plate IP20/Type 1, enclosure size C3

Image
coming
soon

130B4847 [🔗](#)
extension cable for lcp+communication



130B5435 [🔗](#)
DIN Rail Mounting Kit



130B5436 [🔗](#)
Side Fixture Mounting Kit

Side Fixture Mounting Kit for enclosure size A5 / B1 / B2 / C1 / C2
 To be used when retrofitting the following MCA options:
 MCA 120 Profinet
 MCA 121 EtherNet
 MCA 122 Modbus TCP
 MCA 123 POWERLINK
 MCA 124 EtherCAT
 Product group: R1

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Accessories



130B6226 [🔗](#)
Leakage Current Monitor Kit, C3
 Leakage Current Monitor Kit, C3



130B7533 [🔗](#)
Mounting Kit C Option, B/C/D/E/F(not B3)
 MCF105 C Option, Mounting Kit A2 and A3



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

134B1980 [🔗](#)
Accessory bag for framesize C3
 Accessory bag for framesize C3

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

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Accessories



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

Image
coming
soon

134B6883 [🔗](#)

VLT Progr. Contr. MCB 301, coated

Image
coming
soon

134B7207 [🔗](#)

cable clamp/d=44-48 k48b

Image
coming
soon

134B7209 [🔗](#)

cable clamp/d=36-40 k40b



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.

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Accessories

Image coming soon

134B8497 

Cable assy, M12 female connec.10m screen



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



134B9401 

Pressure Sensor 7249T 500/7000Pa &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



134B9402 

Pressure Sensor 7247T 2x7000Pa & PT1000

DUAL AIR PRESSURE SENSOR ±7000PA 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

**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 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: $\pm 500\text{ Pa} - 0 \dots 100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ Accuracy: 500 Pa typical $\pm 13\text{ Pa}$ 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

**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: $\pm 7000\text{ Pa} - 0 \dots 1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} /$

5000Pa / 7000Pa

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

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Accessories

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

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

**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 <1,2WOperation 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

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Accessories

Image
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soon**134B9408****Airflow Sensor 8148 Temp&Humidity&500Pa**

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±500PA-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. ± 500 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: ± 500 Pa

Accuracy: 500 Pa/2.0 inWC: typical ± 13 Pa at +25 °C / ± 0.05 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

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

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Accessories



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



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

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

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Accessories

**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 $-30...+150^{\circ}\text{C}$. 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 $0^{\circ}\text{C} \pm 0,3\text{ K}$ Measuring range: $-30...+150^{\circ}\text{C} / -22...+302^{\circ}\text{F}$ Ambient temperature: $-20...+100^{\circ}\text{C} / -4...+212^{\circ}\text{F}$ Testing current: $< \text{0.6 mA}$ Insulating resistance: 100 M Ω , at $+20^{\circ}\text{C}$ (500V DC)

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571), $\varnothing 6\text{ mm}$, 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

**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: $\pm 5\text{ ppm pro }^{\circ}\text{C}$ or $\pm 0,5\%$ of measured value pro $^{\circ}\text{C}$ (whichever is higher) pressure dependence: $\pm 0.13\%$ per mm Hg

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

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



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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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)

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