



134L0089

FC-302N110T5E5MH4XGC7XXSXXXXAXBKXXXXDX

Frequency converter
 FC-302N110T5E5MH4XGC7XXSXXXXAXBKXXXXDX
 VLT® AutomationDrive FC-302
 (N110) 110 KW / 150 HP,
 Three phase, 380 - 500 VAC, IP54/Type 12+main shield
 RFI class A1 (C2)
 No brake chopper
 Graphical Loc. Cont. Panel
 Coated PCB, Fuse
 Latest release std. SW.
 Frame: D1H
 No A Option, MCB-101 General purp. I/O
 No C1 option, No D option

Other options according to Model code

Model code: FC-302N110T5E5MH4XGC7XXSXXXXAXBKXXXXDX

The VLT® AutomationDrive represents a single drive concept that controls the entire range of operations from ordinary to servo like applications on any machine or production line.

[View Efficiency Data](#)

PRODUCT DETAILS

Gross weight		82 Kilogram
Net weight		77 Kilogram
Volume		255.881 Liter
EAN		5710107752256
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AutomationDrive FC-
Series	302	302
Power Rating	N110	(N110) 110 KW / 150 HP
Phase	T	Three phase
Mains Voltage	5	380 - 500 VAC
Enclosure	E5M	IP54/Type 12+main shield
RFI Filter	H4	RFI class A1 (C2)
Brake - Safe Stop	X	No brake chopper
LCP	G	Graphical Loc. Cont. Panel
Coating PCB	C	Coated PCB
Mains Option	7	Fuse
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	BK	MCB-101 General purp. I/O
C0 Option MCO	CX	No C0 option
C1 Option	X	No C1 option

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PRODUCT DETAILS

C Option Software	XX	No software option
D Option	DX	No D option
Frame Size	D1H	D1H
Typecode Part 1		FC-302N110T5E5MH4XGC
Typecode Part 2		7XXSXXXXAXBKCXXXXDX
Product Catalog	NO_VIEW	NO VIEW
Power 150% (HO) [KW]	110	110
Power 110% (NO) [KW]	132	132
Height [mm]	901,0	901,0
Width w/ no C options [mm]	325,0	325,0
Depth [mm]	378,0	378,0
Depth with Option A/B [mm]	378,0	378,0
kVA	147	147
Power Loss NO [W]	2954	2954
Power Loss NO [W]	2724	2724
Power Loss HO [W]	2289	2289
Power Loss HO [W]	2051	2051
Continuous Current (NO) [A]	260	260
Intermittent Current (NO) [A]	286	286
Continuous Current (NO) [A]	240	240
Intermittent Current (NO) [A]	264	264
Continuous Current (HO) [A]	212	212
Intermittent Current (HO) [A]	318	318
Continuous Current (HO) [A]	190	190
Intermittent Current (HO) [A]	285	285
Calculated Gross Weight [kg]		62.3
Calculated Net Weight [kg]		62
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Vendor	ERR01	Cannot Determine Vendor
Recommended Factory	ERR01	Cannot Determine Vendor
Modelcode01		FC-302N110T5E5MH4XGC
Modelcode02		7XXSXXXXAXBKCXXXXDX
Recommended 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

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Accessories



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



130B1077 [🔗](#)

Blindcover, w/ Danfoss logo, IP55/66

LCP Blindcover IP66



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.



130B1103 [🔗](#)

VLT® CAN Open MCA 105, uncoated

Standardized handling and interoperability for high flexibility and low costs. Fully equipped with both high-priority access to control and status of the drive (PDO Communication) and access to all parameters through acyclic data (SDO Communication). For interoperability the option has implemented the DSP402 AC-drive profile.



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.

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

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Accessories



130B1113 [🔗](#)

LCP Mounting Kit w/ graphical LCP102, 3m

The kit includes graphical LCP, fasteners, 3m cable and gasket.



130B1114 [🔗](#)

LCP Mounting Kit w/ numerical LCP101, 3m

The kit includes numerical LCP, fasteners, 3m cable and gasket.



130B1117 [🔗](#)

LCP Mounting Kit, w/ no LCP

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



130B1119 [🔗](#)

VLT® EtherNet/IP MCA 121, uncoated

MCA 121 EtherNet / IP interface

- Allows connection to EtherNet / IP based Automation systems via CIP (CommonInterface Protocol)
- 2 port design reduces external components
- HTTP for diagnosis via built-in web server
- SMTP, DHCP and FTP protocols
- Prepared for parameterization with the MCT 10 software via TCP / IP
- Certified according to ODVA



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.



130B1129 [🔗](#)

LCP Mounting Kit FC IP55/66, 8m

The kit includes fasteners, 8m cable, gasket and a blind cover to ensure IP55/ 66 after the LCP has been mounted elsewhere. The 8m cable is open in one end and the connector block is included in the package. No LCP included.

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Accessories

**130B1134** [🔗](#)**VLT® Motion Control MCO 305, uncoated**

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function)

10 digital inputs

8 digital outputs

- Sends and receives data via fieldbus interface (requires fieldbus Option)
- PC software for programming and commissioning.

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3.

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices. Product group: R

**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
-

**130B1152** [🔗](#)**VLT® Synchronizing Contr. MCO350, unctd**

Expands the functional properties of the VLT® AutomationDrive in synchronizing applications, and replaces traditional mechanical solutions. Speed synchronizing. Position (angle) synchronizing with or without marker correction. Online adjustable gear ratio. Online adjustable position (angle) offset. Encoder output with virtual master function for synchronization of multiple followers. Control via I/Os or fieldbus. Home function. Configuration as well as read-out of status and data via the Local Control Panel of the drive.

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

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Accessories



130B1153

VLT® Position Controller MCO351, unctd

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning

- End stop handling (software and hardware)

- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation

- None for programming, as it is pre-programmed

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R



130B1164

VLT® Extended Relay Card MCB 113

Adds 7 digital inputs and 2 analog outputs for increased flexibility. 4

SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.



130B1170

LCP Panel Mounting Kit

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



130B1196

VLT® Modbus TCP MCA 122

MCA 122 Modbus TCP interface Complex compatibility tests make the perfect operation in Modbus TCP systems for sure.

- On Board web-Page with Drive Status

- Parameterization with MCT10 software

- 2 port version reduces effort for external hardware (switch, cables, etc.) and allows flexible bus topologies



130B1202

VLT® DeviceNet MCA 104, coated

MCA 104 - DeviceNet interface Option for FC300 and FC100

for mounting on the control card. Painted version

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Accessories



130B1205 [🔗](#)

VLT® CAN Open MCA 105, coated

CANopen interface for FC 300. Max. Baud rate 500 kBit / s. Support that DSP402 drive profile and PDO / SDO communication. Painted version for harsh environments. Easy to retrofit thanks to modular technology.



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.



130B1234 [🔗](#)

VLT® Motion Control MCO 305, coated

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function) 10 digital inputs
- 8 digital outputs
- Sends and receives data via fieldbus interface (requires fieldbus option)
- PC software for programming and commissioning Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted) Danfoss MCO options are not sold without prior advice.

Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices. Product group: R



130B1245 [🔗](#)

VLT® PROFIBUS Converter MCA 113, ctd

Ensures easy and quick replacement of VLT®3000 to VLT® AutomationDrive. VLT® 3000 can then be replaced by VLT® AutomationDrive or

- the system Can be expanded without costly changes to the PLC program
 - Flexible investment as it is easy to remove and replace option when upgrading to another fieldbus
- Product group: R1

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Accessories



130B1252 [🔗](#)

VLT® Synchronizing Ctrl. MCO 350, ctd

MCO 350 - synchronous controller Based on the MCO 305 prefabricated controller for Synchronization tasks. The adjustment takes place through parameter settings. Specific Programming skills are not required.

- 2 encoder inputs, both for incremental as well as absolute encoder
- 1 encoder output (virtual master function)
- 10 additional digital inputs
- 8 additional digital outputs
- fieldbus Communication (requires fieldbus card) with reinforced coating



130B1253 [🔗](#)

VLT® Position Controller MCO 351, ctd

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

Remember to order the Mounting kit if the above MCO option is required retrofitted.

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice.

Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R



130B1264 [🔗](#)

VLT® Extended Relay Card MCB 113, ctd

Adds 7 digital inputs and 2 analog outputs for increased flexibility. 4 SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.



130B1266 [🔗](#)

VLT MCB 115 Programmable I/O, coated

VLT® MCB 115 programmable I / O, coated



130B1385 [🔗](#)

VLT® Profibus DP V1 MCA101, unctd 5pcs

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Accessories



130B1386 [🔗](#)
VLT® Profibus DP V1 MCA 101, ctd, 5pcs



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

Image coming soon

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



130B5601 [🔗](#)
VLT® DeviceNet converter MCA194 coated
 VLT® DeviceNet converter MCA194 coated



130B7145 [🔗](#)
VLT® SALT Controller MCO 360



130B7635 [🔗](#)
VLT® Lift Controller MCO 361
 VLT® Motion Control MCO 305 with special software for lift application



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

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



134B6544 [🔗](#)
Real Time Clock D slot option MCB117
 The VLT® Real-time clock option MCB 117 option provides advanced data- logging functionality to the following drives

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® Aqua Drive FC 202
- VLT® Automation Drive FC 301/FC 302

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

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Accessories



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



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

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Accessories



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



134B9404 [🔗](#)

Pressure Sensor 7225 2x500Pa, Analog

DUAL AIR PRESSURE SENSOR ±500PA ±500PA, 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 (Ø 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 (± 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 °C / -4...+122 °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 [🔗](#)

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Accessories



134B9405

Pressure Sensor 7229 500/7000Pa, Analog

DUAL AIR PRESSURE SENSOR ±500Pa ±7000Pa, 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 (Ø 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 Pressure range selection: ± 7000 Pa – 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 500 Pa typical ± 13 Pa

Accuracy: 7000 Pa typical ± 105 Pa

Zero point offset: ± 10 % of measuring range

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

Power: 24VAC/DC (± 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 °C / -4...+122 °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 ±7000Pa ±7000Pa, 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 (Ø 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: ± 7000 Pa – 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 7000 Pa typical ± 105 Pa

Zero point offset: ± 10 % of measuring range

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

Power: 24VAC/DC (± 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 °C / -4...+122 °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 $\pm 7000\text{PA-MB}$
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. $\pm 7000\text{ Pa}$) 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: $\pm 7000\text{ Pa}$

Accuracy: 7000 Pa/28 inWC: typical $\pm 105\text{ Pa}$ at $+25\text{ }^\circ\text{C}$ / $\pm 0.12\text{ inWC}$ 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


134B9410
Wall Sensor ATM2 Temperature

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

Calibratable outside temperature sensor ATM2, PT1000 measure temperature ($-50...+150\text{ }^\circ\text{C}$), 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: $-50...+150\text{ }^\circ\text{C}$ / $-31... +176\text{ }^\circ\text{F}$

Deviation: typical $\pm 0.2\text{ K}$ at $+25\text{ }^\circ\text{C}$ / $\pm 77\text{ }^\circ\text{F}$

Zero point offset: $\pm 10\text{ }^\circ\text{C}$ / $\pm 50\text{ }^\circ\text{F}$

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

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

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

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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 ± 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), Ø 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



134B9425 [🔗](#)

Enclosure protection in Stainl Steel V2A

WEATHER AND SUN PROTECTION HOOD

Weather and sun protection hood in stainless steel V2A, 200 x 180 x 150 mm / 7.87 x 7.1 x 5.9 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

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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

Image coming soon

176F3409 [🔗](#)

Adapter Plate, D1h/D3h

VLT® drive replace adptr plate d1h d3h

Image coming soon

176F3522 [🔗](#)

kit,cooling,in bottom out back,d1h d3h

Image coming soon

176F3532 [🔗](#)

kit,cooling,in-back/out-back,pedstl,d1h

Image coming soon

176F3631 [🔗](#)

Pedestal Kit, 400mm, D1h

Sub-base kit, H 400 mm for VLT FC New Generation D-Frame, housing size D1h. For use with floor installation / assembly of the VLT in IP21 / 54. Contains components / assembly parts and fastening material.

Image coming soon

176F3648 [🔗](#)

Cooling Kit, in back/out back, D1h

Image coming soon

176F3656 [🔗](#)

Cooling Kit, in back/out back, SS, D1h

Image coming soon

176F3812 [🔗](#)

KIT,MULTI WIRE,MOTOR,BB,D1H,D3H,P454

Image coming soon

176F3817 [🔗](#)

KIT, MULTI WIRE, D1H, P454

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Image coming soon

176F3854 [🔗](#)
KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454
KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454

Image coming soon

176F6339 [🔗](#)
VLT® Mains Shield Kit D1H Framesize

Image coming soon

176F6770 [🔗](#)
KIT, COMMON MODE, T5/50M, P454



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



185B0011 [🔗](#)
FC-302 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 302 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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