



134G4673 [🔗](#)

FC-302N90KT5E20H4XGCXXXSXXXXALBXCXXXXD0

Frequency converter
 FC-302N90KT5E20H4XGCXXXSXXXXALBXCXXXXD0
 VLT® AutomationDrive FC-302
 (N90K) 90 KW / 125 HP,
 Three phase, 380 - 500 VAC, (E20) IP20 / Chassis
 RFI class A1 (C2)
 No brake chopper
 Graphical Loc. Cont. Panel
 Coated PCB, No Mains Option
 Latest release std. SW.
 Frame: D3H
 PROFINET MCA 120, No B Option
 No C1 option, MCB-107 24V DC backup

Other options according to Model code

Model code: FC-302N90KT5E20H4XGCXXXSXXXXALBXCXXXXD0

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		73 Kilogram
Net weight		68 Kilogram
EAN		5710107550098
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AutomationDrive FC-
Series	302	302
Power Rating	N90K	(N90K) 90 KW / 125 HP
Phase	T	Three phase
Mains Voltage	5	380 - 500 VAC
Enclosure	E20	(E20) IP20 / Chassis
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	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	AL	PROFINET MCA 120
B Option	BX	No B Option
C0 Option MCO	CX	No C0 option
C1 Option	X	No C1 option
C Option Software	XX	No software option

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Product Detail | FC-302N90KT5E20H4XGCXXXSXXXXALBXCXXXXD0

PRODUCT DETAILS

D Option	D0	MCB-107 24V DC backup
Frame Size	D3H	D3H
Typecode Part 1		FC-302N90KT5E20H4XGC
Typecode Part 2		XXXSXXXXALBXCXXXXD0
Product Catalog	NO_VIEW	NO VIEW
Power 150% (HO) [KW]	90	90
Power 110% (NO) [KW]	110	110
Height [mm]	909,0	909,0
Height w/ Regen/Loadshare [mm]	1004,0	1004,0
Width w/ no C options [mm]	250,0	250,0
Depth [mm]	375,0	375,0
Depth with Option A/B [mm]	375,0	375,0
kVA	123	123
Power Loss NO [W]	2559	2559
Power Loss NO [W]	2261	2261
Power Loss HO [W]	2031	2031
Power Loss HO [W]	1828	1828
Continuous Current (NO) [A]	212	212
Intermittent Current (NO) [A]	233	233
Continuous Current (NO) [A]	190	190
Intermittent Current (NO) [A]	209	209
Continuous Current (HO) [A]	177	177
Intermittent Current (HO) [A]	266	266
Continuous Current (HO) [A]	160	160
Intermittent Current (HO) [A]	240	240
Calculated Gross Weight [kg]		62.3
Calculated Net Weight [kg]		62
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Plant from Orderline	B901	B901
Vendor	ERR01	Cannot Determine Vendor
Recommended Factory	ERR01	Cannot Determine Vendor
Modelcode01		FC-302N90KT5E20H4XGC
Modelcode02		XXXSXXXXALBXCXXXXD0

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

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

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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



130B1077 [↗](#)

Blindcover, w/ Danfoss logo, IP55/66

LCP Blindcover IP66



130B1088 [↗](#)

LCP Blindcover, w/ Danfoss logo, IP20/21



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



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



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.

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

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Accessories

**130B1115** [🔗](#)**VLT® Encoder Input MCB 102, uncoated**

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.

**130B1117** [🔗](#)**LCP Mounting Kit, w/ no LCP**

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

**130B1120** [🔗](#)**VLT® Safe PLC I/O MCB 108, uncoated**

Connection converter for FC 300 with control input for a safe stop. Allows secure connection. Output modules with diagnostic pulse (Cross-circuit monitoring).

**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
-

**130B1127** [🔗](#)**VLT® Resolver Input MCB 103, uncoated**

Enables connection of a resolver to provide speed feedback from the motor. Spring loaded connection.

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

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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

**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

**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.



130B1172

VLT® Sensor Input Card MCB 114, unctd

Protects the motor from being overheated by monitoring the temperature of bearings and windings in the motor. Three self-detecting sensor inputs for 2 or 3 wire PT100/PT1000 sensors. One additional analog input 4–20 mA.



130B1203

VLT® Encoder Input MCB 102, coated

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.

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

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Accessories

**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

**130B1220** [🔗](#)**VLT® Safe PLC I/O MCB 108, coated**

Increases security and helps you meet requirement security levels - VLT® AutomationDrive FC 302 has a safety input based on a single pole 24 V DC input - Security in a cost-effective way Possibility of connection to two conductor safety system Possibility to interrupt on the plus or minus side without disturbing the sensor signal

**130B1227** [🔗](#)**VLT® Resolver Input MCB 103, coated**

Resolver extension for FC 300. Enables the connection of the following Resolver types: Input voltage: 4..8 Vrms Input frequency: 2.5..15 kHz Number of resolver poles: 2 or 4

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

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Accessories

**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

**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

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

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Accessories



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)

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 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



130B1272 [🔗](#)

VLT® Sensor Input Card MCB 114, coated

MCB 114 - PT100 / PT1000 option For FC100-FC200 and FC302 (painted version). Enables the evaluation of up to 3 PT 100 or 3 PT 1000 sensors

- Connection of 2 and 3 wire sensors
- Automatic detection of the sensor type
- Additional 4-20mA input

Image coming soon

130B4847 [🔗](#)

extension cable for Icp+communication



130B5601 [🔗](#)

VLT® DeviceNet converter MCA194 coated

VLT® DeviceNet converter MCA194 coated

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Accessories



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



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

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

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Accessories

**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****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: $24\text{VAC} (\pm 20\%) \text{ \< } 0,2\text{W} / 15 \dots 36\text{VDC}$ Operation temperature: $-30 \dots +70\text{ }^{\circ}\text{C} / -22 \dots +158\text{ }^{\circ}\text{F}$ Media temperature $-20 \dots +50\text{ }^{\circ}\text{C} / -4 \dots +122\text{ }^{\circ}\text{F}$

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

Housing dimensions: $126 \times 90 \times 50\text{ mm} / 4.96 \times 3.54 \times 1.97\text{ in}$ **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 rangeAbove- # below-pressure: max. $\pm 50\text{ kPa} / \pm 200\text{ inWC}$ Power: $24\text{VAC} (\pm 20\%) \text{ \< } 0,2\text{W} / 15 \dots 36\text{VDC}$ Operation temperature: $-30 \dots +70\text{ }^{\circ}\text{C} / -22 \dots +158\text{ }^{\circ}\text{F}$ Media temperature $-20 \dots +50\text{ }^{\circ}\text{C} / -4 \dots +122\text{ }^{\circ}\text{F}$

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

Housing dimensions: $126 \times 90 \times 50\text{ mm} / 4.96 \times 3.54 \times 1.97\text{ in}$

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Accessories

**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 ($\pm 20\%$) <math>0,2\text{W} / 15\dots 36\text{VDC}

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

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

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

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$

**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 $0-10\text{ V}$ or $4\dots 20\text{ mA}$.

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 range

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

Power: 24VAC/DC ($\pm 10\%$) <math>1,3\text{W},

Output: automatically switching $0-10\text{ V}$ # $4\dots 20\text{ mA}$

Working resistance: R_a (ohms) = $25\dots 450\text{ Ohm}$ (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: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$

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

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Accessories

**134B9405****Pressure Sensor 7229 500/7000Pa, Analog**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ $\pm 7000\text{Pa}$, ANALOGUE

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

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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
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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

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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 $\pm 0,3$ K

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

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

Testing current: < 0.6 mA

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

Connection type: 2-wire connection

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

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

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

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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

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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
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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

Image
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soon**176F3409** [🔗](#)**Adapter Plate, D1h/D3h**

VLT® drive replace adptr plate d1h d3h

Image
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soon**176F3519** [🔗](#)**kit,cooling,in back out back,weld,d3h**

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176F3520 [🔗](#)
kit,cooling,in back out back,ss,weld,d3h

Image
coming
soon

176F3521 [🔗](#)
kit,cooling,in back out back,3r,weld,d3h

Image
coming
soon

176F3522 [🔗](#)
kit,cooling,in bottom out back,d1h d3h

Image
coming
soon

176F3625 [🔗](#)
Cooling Kit, in back/ out back, D3h

Image
coming
soon

176F3627 [🔗](#)
Cooling Kit, in btm/ out top, 1800, D3h

Image
coming
soon

176F3629 [🔗](#)
Cooling Kit, in btm/out top, 2000mm, D3h

Image
coming
soon

176F3633 [🔗](#)
Cooling Kit, in back/out back, D3h
kit, cooling, in back out back, 3r, d3h

Image
coming
soon

176F3648 [🔗](#)
Cooling Kit, in back/out back, D1h

Image
coming
soon

176F3654 [🔗](#)
Cooling Kit, in back/out back, SS, D3h

Image
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soon

176F3812 [🔗](#)
KIT,MULTI WIRE,MOTOR,BB,D1H,D3H,P454

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Accessories

Image
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soon**176F3854** **KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454**
KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454Image
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soon**176F4055** **USB service port extension D3h, E3h, E4h**Image
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soon**176F6760** **KIT,DUCT,IN-BOTTOM/OUT-TOP,D3H**Image
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soon**176F6770** **KIT, COMMON MODE, T5/50M, P454**Image
coming
soon**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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