



135N8016

FC-302P22KT5E66H1XGXXXXSXXXXALBXCXXXXD0

Frequency converter
 FC-302P22KT5E66H1XGXXXXSXXXXALBXCXXXXD0
 VLT® AutomationDrive FC-302
 (P22K) 22 KW / 30 HP,
 Three phase, 380 - 500 VAC, (E66) IP66 / NEMA 4X
 (H1) RFI Class A1/B (C1)
 No brake chopper
 Graphical Loc. Cont. Panel
 Not coated PCB, No Mains Option
 Latest release std. SW.
 Frame: B2
 PROFINET MCA 120, No B Option
 No C1 option, MCB-107 24V DC backup

Other options according to Model code

Model code: FC-302P22KT5E66H1XGXXXXSXXXXALBXCXXXXD0

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		33.45 Kilogram
Net weight		29.89 Kilogram
Volume		105.71 Liter
EAN		5710108242213
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AutomationDrive FC-
Series	302	302
Power Rating	P22K	(P22K) 22 KW / 30 HP
Phase	T	Three phase
Mains Voltage	5	380 - 500 VAC
Enclosure	E66	(E66) IP66 / NEMA 4X
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	X	No brake chopper
LCP	G	Graphical 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	AL	PROFINET MCA 120
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-302P22KT5E66H1XGXXXXXXXALBXCXXXXD0

PRODUCT DETAILS

C Option Software	XX	No software option
D Option	D0	MCB-107 24V DC backup
Frame Size	B2	B2
Typecode Part 1		FC-302P22KT5E66H1XGX
Typecode Part 2		XXXXXXXXALBXCXXXXD0
Product Catalog	NO_VIEW	NO VIEW
Power 160% (HO) [KW]	22	22
Power 110% (NO) [KW]	30	30
Height [mm]	664,0	664,0
Width w/ no C options [mm]	243,0	243,0
Depth [mm]	261,0	261,0
Depth with Option A/B [mm]	261,0	261,0
kVA	30.5	30.5
Power Loss NO [W]	739	739
Power Loss NO [W]	739	739
Power Loss HO [W]	547	547
Power Loss HO [W]	547	547
Continuous Current (NO) [A]	61	61
Intermittent Current (NO) [A]	67.1	67.1
Continuous Current (NO) [A]	52	52
Intermittent Current (NO) [A]	57.2	57.2
Continuous Current (HO) [A]	44	44
Intermittent Current (HO) [A]	70.4	70.4
Continuous Current (HO) [A]	40	40
Intermittent Current (HO) [A]	64	64
Calculated Gross Weight [kg]		33.45
Calculated Net Weight [kg]		29.89
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Vendor	ERR01	Cannot Determine Vendor
Producing plant	ERR01	Cannot Determine Vendor
Modelcode01		FC-302P22KT5E66H1XGX
Modelcode02		XXXXXXXXALBXCXXXXD0
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

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Accessories

**130B1047** [🔗](#)**Panel Through Mounting Kit, B2**

Push-through frame kit for FC size B2. Contains mounting frame, seal, Fastening material and assembly instructions.

**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

**130B1078** [🔗](#)**VLT® Control Panel LCP 102, graphical**

LCP 102 - graphic control unit for FC100 / 200/300, degree of protection IP66

**130B1082** [🔗](#)**Mounting Brackets, B2**

Mounting brackets for enclosure size B2

**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

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.

**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.

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Accessories



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.



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

**130B1156** [🔗](#)**USB extension Cable, 650mm**

USB extension kit for FC 300 cable length: 650mm for the housing size: B2, C1 and C2 screw connection M 25

**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

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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

**130B3397** [🔗](#)**Back plate IP21/Type 1, IP55/Type 12, B2**

FC 300 back cover for the devices in IP21 / 55 Housing size B2

**130B3465** [🔗](#)**Back plate IP66/Type 4X, SS, B2**

Backplate in stainless steel for IP66, B2 enclosure

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Accessories

**130B4598** [🔗](#)**Weather shield f. outdoor instl A4 to B2**

Weather shield for enclosure sizes A4, A5, B1, B2

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

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

VLT® DeviceNet converter MCA194 coated

**130B7145** [🔗](#)**VLT® SALT Controller MCO 360****130B7533** [🔗](#)**Mounting Kit C Option, B/C/D/E/F(not B3)**

MCF105 C Option, Mounting Kit A2 and A3

**130B7635** [🔗](#)**VLT® Lift Controller MCO 361**

VLT® Motion Control MCO 305 with special software for lift application

Image
coming
soon**134B1986** [🔗](#)**Accessory bag for smooth cable entry B2**

Accessory bag for smooth cable entry B2

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Accessories

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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

**134B6488** [🔗](#)**Panel Through Mounting kit w/o Panel, B2****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****134B7093** [🔗](#)**VLT C-option Adapter MCF 107****134B7466** [🔗](#)**Option A Ethernet Package**

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Accessories



134B8492 [🔗](#)
Transducer 0-10g, 4-20mA; HS-22B50



134B8493 [🔗](#)
Transducer 0-25mm/s RMS 4-20mA
 CBM Transducer 0-25mm/s RMS 4-20mA



134B8494 [🔗](#)
Transducer w, temp 0-25mm/s RMS 4-20mA



134B8496 [🔗](#)
CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.

Image
coming
soon

134B8497 [🔗](#)
Cable assy, M12 female connec.10m screen



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 $\pm 7000\text{Pa}$ 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}</math> / $15\text{...}36\text{VDC}$

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

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

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

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

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

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

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

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

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

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

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

Working resistance: R_a (ohms) = $25\text{...}450\text{ Ohm}$ (at I output)

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

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

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

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Accessories

**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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