


**134X5575**
**FC-302P45KT5E20H2BGXXXXXXXALBRCXXXXDX**

Frequency converter  
 FC-302P45KT5E20H2BGXXXXXXXALBRCXXXXDX  
 VLT® AutomationDrive FC-302  
 (P45K) 45 KW / 60 HP,  
 Three phase, 380 - 500 VAC, (E20) IP20 / Chassis  
 RFI Filter  
 Brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: C3  
 PROFINET MCA 120, MCB-102 Encoder Option  
 No C1 option, No D option

Other options according to Model code

**Model code:** FC-302P45KT5E20H2BGXXXXXXXALBRCXXXXDX

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**

<b>Gross weight</b>		36.79 Kilogram
<b>Net weight</b>		33.94 Kilogram
<b>Volume</b>		178.336 Liter
<b>EAN</b>		5710108117337
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® AutomationDrive FC-
<b>Series</b>	302	302
<b>Power Rating</b>	P45K	(P45K) 45 KW / 60 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	5	380 - 500 VAC
<b>Enclosure</b>	E20	(E20) IP20 / Chassis
<b>RFI Filter</b>	H2	RFI Filter
<b>Brake - Safe Stop</b>	B	Brake chopper
<b>LCP</b>	G	Graphical Loc. Cont. Panel
<b>Coating PCB</b>	X	Not coated PCB
<b>Mains Option</b>	X	No Mains Option
<b>Adaptation A</b>	X	Standard Cable Entries
<b>Adaptation B</b>	X	No adaptation
<b>Software Release</b>	SXXX	Latest release std. SW.
<b>Software Language Pack</b>	X	Standard Language Pack
<b>A Option</b>	AL	PROFINET MCA 120
<b>B Option</b>	BR	MCB-102 Encoder Option
<b>C0 Option MCO</b>	CX	No C0 option
<b>C1 Option</b>	X	No C1 option

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**PRODUCT DETAILS**

<b>C Option Software</b>	XX	No software option
<b>D Option</b>	DX	No D option
<b>Frame Size</b>	C3	C3
<b>Typecode Part 1</b>		FC-302P45KT5E20H2BGX
<b>Typecode Part 2</b>		XXXXXXXALBRCXXXXDX
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Power 150% (HO) [KW]</b>	45	45
<b>Power 110% (NO) [KW]</b>	55	55
<b>Height [mm]</b>	550,0	550,0
<b>Width w/ no C options [mm]</b>	308,0	308,0
<b>Depth [mm]</b>	333,0	333,0
<b>Depth with Option A/B [mm]</b>	333,0	333,0
<b>kVA</b>	62.4	62.4
<b>Power Loss NO [W]</b>	1083	1083
<b>Power Loss NO [W]</b>	1083	1083
<b>Power Loss HO [W]</b>	891	891
<b>Power Loss HO [W]</b>	891	891
<b>Continuous Current (NO) [A]</b>	106	106
<b>Intermittent Current (NO) [A]</b>	117	117
<b>Continuous Current (NO) [A]</b>	105	105
<b>Intermittent Current (NO) [A]</b>	116	116
<b>Continuous Current (HO) [A]</b>	90	90
<b>Intermittent Current (HO) [A]</b>	135	135
<b>Continuous Current (HO) [A]</b>	80	80
<b>Intermittent Current (HO) [A]</b>	120	120
<b>Calculated Gross Weight [kg]</b>		36.79
<b>Calculated Net Weight [kg]</b>		33.94
<b>ECCN EU</b>	Y901	Y901
<b>ECCN US</b>	3A999.a	3A999.a
<b>Vendor</b>	ERR01	Cannot Determine Vendor
<b>Recommended Factory</b>	ERR01	Cannot Determine Vendor
<b>Modelcode01</b>		FC-302P45KT5E20H2BGX
<b>Modelcode02</b>		XXXXXXXALBRCXXXXDX
<b>Recommended Plant</b>	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**



**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.



**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.

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**Accessories**


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**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.

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**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

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**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.

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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)

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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.



### 130B1191 [🔗](#)

#### IP 21/Type 1 conversion kit, C3

IP21 cover for enclosure C3.

Product group: R1



### 130B1192 [🔗](#)

#### IP21 conversion kit, top, C3

IP21 top cover for enclosure C3

Product group: R1



### 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.

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**Accessories**


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**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
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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



### 130B1387 [🔗](#)

#### 5xMCB107 24VDC no coat w.out mount brack



### 130B4170 [🔗](#)

#### Back plate IP20/Chassis, C3

Back plate IP20/Type 1, enclosure size C3

Image coming soon

### 130B4847 [🔗](#)

#### extension cable for lcp+communication



### 130B5435 [🔗](#)

#### DIN Rail Mounting Kit

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## Accessories

**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

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

Leakage Current Monitor Kit, C3

**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

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Accessories



**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

Image coming soon

**134B1980**

**Accessory bag for framesize C3**

Accessory bag for framesize C3

Image coming soon

**134B1992**

**Control Terminals w/ screw connections**



**134B5223**

**Remote LCP unit, 3m**

Remote mounting kit for LCP with cover for outdoor mounting with 3 m (10 ft) cable

Image coming soon

**134B5224**

**Remote LCP unit, 5m**

Remote mounting kit for LCP with cover for outdoor mounting with 5 m (16 ft) cable

Image coming soon

**134B5225**

**Remote LCP unit, 10m**

Remote mounting kit for LCP with cover for outdoor mounting with 10 m (33 ft) cable

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Accessories



**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**

Image coming soon

**134B7207** [🔗](#)

**cable clamp/d=44-48 k48b**

Image coming soon

**134B7209** [🔗](#)

**cable clamp/d=36-40 k40b**



**134B8492** [🔗](#)

**Transducer 0-10g, 4-20mA; HS-22B50**



**134B8493** [🔗](#)

**Transducer 0-25mm/s RMS 4-20mA**

CBM Transducer 0-25mm/s RMS 4-20mA



**134B8494** [🔗](#)

**Transducer w, temp 0-25mm/s RMS 4-20mA**



**134B8496** [🔗](#)

**CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.**

Image coming soon

**134B8497** [🔗](#)

**Cable assy, M12 female connec.10m screen**

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Accessories



**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%) &lt;1,3W, Output: automatically switching 0 -10 V # 4...20 mA Working resistance: Ra (ohms) = 25...450 Ohm (at I output) Load resistance: RL &gt; 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



**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%) &lt;1,3W, Output: automatically switching 0 -10 V # 4...20 mA Working resistance: Ra (ohms) = 25...450 Ohm (at I output) Load resistance: RL &gt; 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**

**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:  $\pm 7000$  Pa – 0... 1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

 Accuracy: 7000 Pa typical  $\pm 105$  Pa

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

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

 Power: 24VAC/DC ( $\pm 10\%$ ) &lt;1,3W,

Output: automatically switching 0 -10 V # 4...20 mA

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

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

 Operation / Media temperature:  $-20...+50$  °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


**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 ( $-35...+80$  °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) /  $-35...+80$  °C (temperature)

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

 Deviation, humidity: typical  $\pm 2.0$  % (20...80 % RH) at  $+25$  °C, otherwise  $\pm 3.0$  %

 Deviation, temperature: typical  $\pm 0.2$  K at  $+25$  °C

 Zero point offset:  $\pm 10$  % RH (humidity) /  $\pm 5$  °C (temperature)

 Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC &lt;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

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±500PA-MB

Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 500 Pa) with connection nozzles for pressure hose (Ø 6 mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80°C / -31... +176°F (temperature)

Medium: clean air and non-aggressive, non-combustible gases  
Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F, otherwise ± 3.0 %  
Deviation, temperature: typical ± 0.2 K at +25 °C / ± 0.4 °F at +77 °F

Pressure range: ± 500 Pa

Accuracy: 500 Pa/2.0 inWC: typical ± 13 Pa at +25 °C / ± 0.05 inWC at + 77 °F  
Above- # below-pressure: max. ± 50 kPa  
Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;0,2W

Operation temperature: -30...+70 °C / -22...+158 °F

Media temperature -20...+50 °C / -4...+122 °F IP65 plastic housing two M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-MB

Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 7000 Pa) with connection nozzles for pressure hose (Ø 6 mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80°C / -31... +176°F (temperature)

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

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F, otherwise ± 3.0 %

Deviation, temperature: typical ± 0.2 K at +25 °C / ± 0.4 °F at +77 °F

Pressure range: ± 7000 Pa

Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at +25 °C / ± 0.12 inWC at + 77 °F

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

Power: 24VAC (± 20%) / 15...36VDC - 24DC &amp;lt;0,2W

Operation temperature: -30...+70 °C / -22...+158 °F

Media temperature -20...+50 °C / -4...+122 °F IP65 plastic housing two

M16 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**

**134B9410**
**Wall Sensor ATM2 Temperature**

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

Calibratable outside temperature sensor ATM2, PT1000 measure temperature (-50...+150 °C), with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M20 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

Sensor type: PT1000 class B (DIN EN 60751)

Measuring range: - 50...+150°C / -31... +176°F

Deviation: typical ± 0.2 K at +25 °C / ± 77 °F

Zero point offset: ± 10 °C / ± 50 °F

Ambient temperature: Measuring transducer -30...+70 °C / -22... +158°F

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

Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;1,2W

Operation temperature: -30...+70 °C / -22...+158 °F

T3-IP65 plastic housing with two M20 cable glands

Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.1 x 1.7 in


**134B9411**
**Wall Sensor AFTF Temp & Humidity**

ON-WALL- HUMIDITY- AND TEMPERATURE SENSORS AFTF-MB

Calibratable outside humidity and temperature sensor AFTF, detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C), including various parameters in the humidity measurement. Applied in clean air and non-aggressive, dust-free environment. With a Modbus connection in a resistant IP65 plastic housing and M20 cable gland for cable connection, with quick-locking screws and an exchangeable plastic sinter filter. International SI units (default) can be changed to imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80 °C (temperature)

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

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25 °C, otherwise ± 3.0 %

Deviation, temperature: typical ± 0.4 K at +25 °C / ± 77 °F

Zero point offset: ± 10 % RH (humidity) / ± 5 °C (temperature)

Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;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



**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: <math>\leq 0.6\text{ mA}</math>

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



**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 °C or ± 0,5 % of measured value pro °C (whichever is higher) pressure dependence: ± 0.13 % per mm Hg

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

Power: 24VAC/DC (± 10%) 24DC <math>\leq 1.6\text{ W}</math>

Operation temperature: -10...+60 °C / 14...+140 °F

T2-IP65 plastic housing two M20 cable glands

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**

**134B9414**
**Antifreeze Thermostat FS20, 0/+15C**

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

Electronic frost protection thermostat or frost monitor with switching relay output, continuous temperature and valve output (summation output 0–10 V) and control and cascading output (0–10 V), optionally with connection for a heating element. A IP65 resistant plastic housing with display with the actual temperature, measuring range, overrange/underrange of the set switch point (frost protection temperature) and alarm indicator for "frost" or "error" (capillary breakage, overvoltage/undervoltage), quick-locking screws and a fully active sensor rod made of copper. The delivery scope includes a set of MK-05-K mounting clamps for expert attachment of the sensor rod.

Measuring range: 0...+15 °C / 32...+59 °F

Accuracy: typical ± 1 K (at +10 °C)

Sensor type: 3m Copper rod active along the entire sensor length, min. response length of 25 cm

Input: 1 x 0 -10 V control input DDC

1 x 0 -10 V output valve (frost signal with control voltage and cascading)

1 x potential-free changeover contact (24 V), range of adjustment 0...+15 °C

Current consumption: max. 100 mA at 24 V DC

Load resistance: RL > 50 kOhm

Ambient temperature: -15...+50 °C / 5...+122 °F (Housing) -20...+60 °C / -4...+140 °F Sensor and capillary tube > 20 cm from the housing.

Power: 24VAC/DC (± 10%) 24DC < 2,4W

T2-IP65 plastic housing with three-line display 70x40 mm (WxH), a M16 cable glands and MK-05-K mounting clamps.

Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in


**175N2584**
**VLT® EtherNet/IP Modbus TCP gateway**

Image coming soon

**175U0009**
**Mounting bracket Kit, 216 x 30 x 18mm**

Mounting angle for flatpack resistor 200W


**175Z0929**
**LCP Cable, 3m**

Cable for control panel (LCP), 3 meters Works with the following LCP:

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

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## Accessories

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### 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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