



**131F7490**

**FC-202P11KT4E66H1XGX1XXSXXXXAXBXCXXXXX**

This product is not available in this store. Please contact your local **Customer Service Center**.

Frequency converter  
 FC-202P11KT4E66H1XGX1XXSXXXXAXBXCXXXXX  
 VLT® AQUA Drive FC-202  
 (P11K) 11 KW / 15 HP,  
 Three phase, 380 - 480 VAC, (E66) IP66 / NEMA 4X  
 (H1) RFI Class A1/B (C1)  
 No brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, Mains Disconnect  
 Latest release std. SW.  
 Frame: B1  
 No A Option, No B Option  
 No C1 option, No D option

Other options according to Model code

**Model code:** FC-202P11KT4E66H1XGX1XXSXXXXAXBXCXXXXX

Danfoss VLT® AQUA Drive is dedicated to water and wastewater applications. With a wide range of powerful standard and optional features, the VLT® AQUA Drive provides the lowest overall cost of ownership for water and wastewater applications.

[View Efficiency Data](#)

**PRODUCT DETAILS**

<b>Gross weight</b>		24.67 Kilogram
<b>Net weight</b>		21.05 Kilogram
<b>Volume</b>		105.71 Liter
<b>EAN</b>		5702427474529
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® AQUA Drive FC-
<b>Series</b>	202	202
<b>Power Rating</b>	P11K	(P11K) 11 KW / 15 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	4	380 - 480 VAC
<b>Enclosure</b>	E66	(E66) IP66 / NEMA 4X
<b>RFI Filter</b>	H1	(H1) RFI Class A1/B (C1)
<b>Brake - Safe Stop</b>	X	No brake chopper
<b>LCP</b>	G	Graphical Loc. Cont. Panel
<b>Coating PCB</b>	X	Not coated PCB
<b>Mains Option</b>	1	Mains Disconnect
<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

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**PRODUCT DETAILS**

<b>A Option</b>	AX	No A Option
<b>B Option</b>	BX	No B Option
<b>C0 Option MCO</b>	CX	No C0 option
<b>C1 Option</b>	X	No C1 option
<b>C Option Software</b>	XX	No software option
<b>D Option</b>	DX	No D option
<b>Frame Size</b>	B1	B1
<b>Typecode Part 1</b>		FC-202P11KT4E66H1XGX
<b>Typecode Part 2</b>		1XXSXXXAXBXCXXXDX
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Power 160% (HO) [KW]</b>	7.5	7.5
<b>Power 110% (NO) [KW]</b>	11	11
<b>Height [mm]</b>	494,0	494,0
<b>Width w/ no C options [mm]</b>	243,0	243,0
<b>Depth [mm]</b>	261,0	261,0
<b>Depth with Option A/B [mm]</b>	261,0	261,0
<b>kVA</b>	16.6	16.6
<b>Power Loss NO [W]</b>	392	392
<b>Power Loss NO [W]</b>	392	392
<b>Power Loss HO [W]</b>	291	291
<b>Power Loss HO [W]</b>	291	291
<b>Continuous Current (NO) [A]</b>	24	24
<b>Intermittent Current (NO) [A]</b>	26.4	26.4
<b>Continuous Current (NO) [A]</b>	21	21
<b>Intermittent Current (NO) [A]</b>	23.1	23.1
<b>Continuous Current (HO) [A]</b>	16	16
<b>Intermittent Current (HO) [A]</b>	25.6	25.6
<b>Continuous Current (HO) [A]</b>	14.5	14.5
<b>Intermittent Current (HO) [A]</b>	23.2	23.2
<b>Calculated Gross Weight [kg]</b>		24.67
<b>Calculated Net Weight [kg]</b>		21.05
<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-202P11KT4E66H1XGX
<b>Modelcode02</b>		1XXSXXXAXBXCXXXDX
<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



**130B1046** [🔗](#)

**Panel Through Mounting Kit, B1**

Push-through frame kit for FC size B1. 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



**130B1081** [🔗](#)

**Mounting Brackets, B1**

Mounting brackets for enclosure size B1



**130B1088** [🔗](#)

**LCP Blindcover, w/ Danfoss logo, IP20/21**



**130B1102** [🔗](#)

**VLT® DeviceNet MCA 104, uncoated**

Robust, efficient data handling thanks to advanced Producer/Consumer technology. ODVA's strong conformance testing policies ensure products are interoperable, and the AC-drive profile, supported using I/O instance 20/70.21/71, secures compatibility to existing systems.



**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

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**Accessories**

**130B1108**
**VLT® 24V DC Supply MCB 107, uncoated**

Connect an external DC supply to keep the control section and any installed option alive during power failure. Enables full operation of the LCP (including the parameter setting) and all installed options without connection to mains.


**130B1110**
**VLT® Relay Option MCB 105, uncoated**

Relay extension for FC 100 and FC 300. Extension with 3 additional load relays (changeover contacts), easy to retrofit thanks to modular technology.

Max. Load 240V AC (resistive): 2 A

Max. Load 240V AC (Cos Phi 0.4): 0.2 A

Max. Load 24V DC (ohmic): 1 A

Max. Load 24V DC (inductive): 0.1 A


**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.


**130B1118**
**VLT® Ext. Cascade Contr. MCO 101, unctd**

CIRCUITOS MODULARES PARA CONTROLADORES DE VELOCIDAD DE MOTORES ELECTRICOS


**130B1119**
**VLT® EtherNet/IP MCA 121, uncoated**

MCA 121 EtherNet / IP interface

-Allows connection to EtherNet / IP based Automation systems via CIP (CommonInterface Protocol)

-2 port design reduces external components

-HTTP for diagnosis via built-in web server

-SMTP, DHCP and FTP protocols

-Prepared for parameterization with the MCT 10 software via TCP / IP

-Certified according to ODVA

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Accessories



**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



**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.



**130B1135** [🔗](#)

**VLT® PROFINET MCA 120, uncoated**

MCA 120 PROFINET interface

- Supports operation on PROFINET network with extensive properties
- DCP support for easy setting u. Communication parameters via the PLC
- On Board web-Page with Drive Status
- Parameterization with the MCT10 software
- 2 port version, reduced external hardware



**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



**130B1143** [🔗](#)

**VLT® Analog I/O Option MCB 109, unctd**

I / O expansion for FC 100, through modular technology easy to retrofit. Analog inputs/outputs galvanically isolated. Expands the analog inputs / outputs by:

- 3 analog inputs: 0 ... 10V / Pt1000 / Ni1000
- 3 analog outputs: 0 ... 10V
- Time switch (RTC backup): lithium cell for 10 years

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

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**Accessories**

**130B1154**
**VLT® Adv. Cascade Contr. MCO 102, ctd**

Easy to fit. Upgrades built-in cascade controller to operate up to 8 pumps and provide more advanced pump control in master/follower mode. Supports combination of multiple variable speed and fixed speed pumps, as well as configurations with pumps of differing capacity (mixed pump control). The additional 7 digital inputs and the 24-V DC connection to the drive enable flexible adaptation to the application. The same cascade controller hardware is compatible with the entire power range up to 2 MW.


**130B1155**
**USB extension Cable, 350mm**

USB extension kit for FC 300 cable length: 350mm for the housing size: B2, C1 and C2 screw connection M 25


**130B1157**
**oem customer graphic lcp**

OEM version LCP102 w. no Danfoss branding.


**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.


**130B1202**
**VLT® DeviceNet MCA 104, coated**

MCA 104 - DeviceNet interface Option for FC300 and FC100 for mounting on the control card. Painted version


**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



**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



**130B1218** [🔗](#)

**VLT® Ext. Cascade Contr. MCO 101, ctd**

Upgrades the built-in cascade controller to control multiple pumps - easy to mount via plug 'n' play - More advanced pump control in master / follower mode - Up to 6 pumps in standard cascade control - Up to 5 pumps in master / follower setup This MCO option, sits in a B option space.  
 Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices. Product group: R



**130B1243** [🔗](#)

**VLT® Analog I/O Option MCB 109, coated**

I / O extension for FC 100, easy to retrofit thanks to modular technology. Analog inputs / outputs galvanically isolated. Expands the analog inputs / outputs by: 3 analog inputs: 0 ... 10V / Pt1000 / Ni1000 3 analog outputs: 0 ... 10V Time switch (RTC backup): lithium cell for 10 years

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

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## Accessories

**130B1254** [🔗](#)**VLT® Adv. Cascade Contr. MCO 102, ctd**

Upgrades the built-in cascade controller to control up to 8 pumps

- More advanced pump control in master / follower mode
- The same cascade management hardware applies to the entire power range up to 1.2 MW
- Up to 8 pumps in standard cascade control
- Up to 8 pumps in master / follower setup

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

130B7530 - Mounting kit for enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3excepted)

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

**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

**130B1385** [🔗](#)**VLT® Profibus DP V1 MCA101, unctd 5pcs****130B1386** [🔗](#)**VLT® Profibus DP V1 MCA 101, ctd, 5pcs****130B1387** [🔗](#)**5xMCB107 24VDC no coat w.out mount brack****130B3383** [🔗](#)**Back plate IP21/Type 1, IP55/Type 12, B1**

FC 300 back cover for the devices in IP21 / 55 Housing size B1

**130B3434** [🔗](#)**Back plate IP66/Type 4X, SS, B1**

Backplate in stainless steel for IP66, B1 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



### **130B7533** [🔗](#)

#### **Mounting Kit C Option, B/C/D/E/F(not B3)**

MCF105 C Option, Mounting Kit A2 and A3

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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

**134B1985** [🔗](#)**Accessory bag for smooth cable entry B1**

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

**134B6487** [🔗](#)**Panel Through Mounting kit w/o Panel, B1**

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Accessories

Image coming soon

**134B6883** [🔗](#)  
VLT Progr. Contr. MCB 301, coated



**134B7093** [🔗](#)  
VLT C-option Adapter MCF 107



**134B7466** [🔗](#)  
Option A Ethernet Package



**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



**134B8814** [🔗](#)  
VLT® PROFINET MCA120 coated 5pcs

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## Accessories

**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 range

Above-/below-pressure: max.  $\pm 50\text{ kPa} / \pm 200\text{ inWC}$

Power:  $24\text{VAC} (\pm 20\%)$  &lt;&gt;&lt;&gt;&gt;0,2W /  $15\dots 36\text{VDC}$

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 range

Above- # below-pressure: max.  $\pm 50\text{ kPa} / \pm 200\text{ inWC}$

Power:  $24\text{VAC} (\pm 20\%)$  &lt;0,2W /  $15\dots 36\text{VDC}$

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

**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:  $24\text{VAC} (\pm 20\%)$  &lt;0,2W /  $15\dots 36\text{VDC}$

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



**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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### **185B0010** [🔗](#)

#### **FC-202 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 202 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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