



**131B3603**

**FC-102P7K5T4E20H1XGXXXXXXXAXBXXXXDX**

Frequency Converter  
 FC-102P7K5T4E20H1XGXXXXXXXAXBXXXXDX  
 VLT® HVAC Drive FC-102  
 (P7K5) 7.5 KW / 10 HP, Three phase  
 380 - 480 VAC, (E20) IP20 / Chassis  
 (H1) RFI Class A1/B (C1)  
 No brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: A3  
 No C1 option, No D option  
 No A Option, No B Option  
 Other options according to Model Code

**Model code:** FC-102P7K5T4E20H1XGXXXXXXXAXBXXXXDX

Danfoss Drive is dedicated to ventilation, heating, and refrigeration applications. With a wide range of powerful standard and optional features, the Drive provides the lowest overall cost of ownership.

[View Efficiency Data](#)

**PRODUCT DETAILS**

<b>Gross weight</b>	7.26 kg	
<b>Net weight</b>	6.67 kg	
<b>Volume</b>	27.246 l	
<b>EAN</b>	5702427176966	
<b>VLT® HVAC DRIVE FC 100 SERIES</b>		
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® HVAC Drive FC-
<b>Series</b>	102	102
<b>Power Rating</b>	P7K5	(P7K5) 7.5 KW / 10 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	4	380 - 480 VAC
<b>Enclosure</b>	E20	(E20) IP20 / Chassis
<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>	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>	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

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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>	A3	A3
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>Typecode Part 1</b>		FC-102P7K5T4E20H1XGX
<b>Typecode Part 2</b>		XXXXXXXXAXBXCXXXXX
<b>Power 110% (NO) [KW]</b>		7.5
<b>Height [mm]</b>		268,0
<b>Width w/ no C options [mm]</b>		130,0
<b>Width w/ two C options [mm]</b>		190,0
<b>Depth [mm]</b>		205,0
<b>Depth with Option A/B [mm]</b>		220,0
<b>kVA</b>		11.1
<b>Power Loss NO [W]</b>		255
<b>Power Loss NO [W]</b>		255
<b>Continuous Current (NO) [A]</b>		16
<b>Intermittent Current (NO) [A]</b>		17.6
<b>Continuous Current (NO) [A]</b>		14.5
<b>Intermittent Current (NO) [A]</b>		16
<b>Calculated Gross Weight [kg]</b>		7.3
<b>Calculated Net Weight [kg]</b>		7
<b>ECCN EU</b>		Y901
<b>ECCN US</b>		3A999.a
<b>Vendor</b>	ERR01	Cannot Determine Vendor
<b>Recommended Factory</b>	ERR01	Cannot Determine Vendor
<b>Modelcode01</b>		FC-102P7K5T4E20H1XGX
<b>Modelcode02</b>		XXXXXXXXAXBXCXXXXX
<b>Recommended Plant</b>		ERR01

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

## Accessories

**130B7531** [🔗](#)**Mounting Kit f. C Option, 60mm, A2/A3**

VLT® Mounting kit for enclosure sizes A2 and A3.

Must be used when retrofitting 1 pc. of the following MCO options, together with MCB 113 Extended relay card (Located in MCO slot):

MCO 305 Programmable Motion Controller

MCO 350 Synchronizing Controller

MCO 351 Positioning controller

MCO 360 Salt Controller

MCO 361 Lift Controller

Product group: R

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Accessories



**130B7530** [🔗](#)  
**Mounting Kit f. C Option, 40mm, A2/A3**  
 MCF 105 assembly kit A2 / A3 for C option



**130B7401** [🔗](#)  
**NEMA 1 Conversion Kit, Top, 10 pcs, A3**



**130B5645** [🔗](#)  
**Leakage Current Monitor Kit, A2, A3**



**130B1170** [🔗](#)  
**LCP Panel Mounting Kit**  
 The kit includes fasteners and gasket. No LCP and no cable included.



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



**130B1385** [🔗](#)  
**VLT® Profibus DP V1 MCA101, unctd 5pcs**



**130B0185** [🔗](#)  
**Adapter Plate, 395x220mm**  
 With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components.  
 The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0185:  
 IP20 Compact: 200-240Volt VLT5001-5006, 380/500Volt VLT5001-5011  
 IP20/NM1: 200-240Volt VLT6002-6005, 380/460Volt VLT6002-6011, 380-480Volt VLT8006-8011, 550-600Volt VLT 5001-5011, 525-690Volt VLT8002-8011



**130B0184** [🔗](#)  
**Adapter Plate, 395x130mm**  
 With the adapter plate you can replace a VLT® 5/6/8000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 5/6/8000, and as there will be no drilling there will be no swarf harming the electric components.  
 The following VLT® 5/6/8000 can be mounted on the Adapter Plate 130B0184:  
 IP20 Book: 200-240Volt VLT5004-5006/VLT6004-6005, 380/500Volt VLT5006-5011, 380-460Volt VLT6006-6011

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**Accessories**


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**130B0058** [🔗](#)**Adapter Plate, 415x279mm**

With the adapter plate you can replace a VLT® 3000 by a FC drive without having to drill new holes for the FC drive. This makes it easy and fast to replace a VLT® 3000, and as there will be no drilling there will be no swarf harming the electric components.

It is possible to install one FC drive with or without C Option in the same place as one VLT® 3000.

The following VLT® 3000 can be mounted on the Adapter Plate 130B0058:

IP20: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP21: 220/380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3006-3008 with no brake

IP54: 220Volt VLT3002-3004 with no brake, 220Volt VLT3004 with brake, 380/500Volt VLT3002-3004 with brake, 380/500Volt VLT3002-3006 with no brake

**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

**130B1133** [🔗](#)**IP 21/Type 1 conversion kit, top, A3**

This is only the top part of the kit - If you need a kit with both top and bottom please order 130B1123

**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

**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.

**130B1123** [🔗](#)**IP 21/Type 1 conversion kit, A3**

Cover for housing size A3, type 1 MCF 101 NEMA1 / IP21

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Accessories



**130B1117** [🔗](#)

**LCP Mounting Kit, w/ no LCP**

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



**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



**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



**130B1071** [🔗](#)

**6 Pole Connector, FC series, 10 pcs**

6-pole spring cage connectors 10 pcs



**130B1070** [🔗](#)

**RS485 plug, FC series, 10 pcs**

10pcs RS485 connectors for FC-series.

Product group: R



**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.



**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.

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Accessories



**130B1100** [🔗](#)

**VLT® Profibus DP V1 MCA 101**

Provides wide compatibility, a high level of availability, support for all major PLC vendors and compatibility with future versions. Fast, efficient communication, transparent installation, advanced diagnosis and parameterization and auto-configuration of process data using GSD-file. Acyclic parameterization using PROFIBUS DP-V1, –PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP-V1, Master Class 1 and 2.



**130B1088** [🔗](#)

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



**175U0088** [🔗](#)

**Mounting brackets: Footprint, A1**



**175U0086** [🔗](#)

**Mount. Brack.: Footprint, A3, f.2 br.res**

Back frame A3 for 2 brake resistors



**175Z0929** [🔗](#)

**LCP Cable, 3m**

Cable for control panel (LCP), 3 meters  
Works with the following LCP:  
Alphanumeric control panel LCP3 - 175N0131  
VLT® LCP 102 Graphic Display - 130B1107  
VLT® LCP 101 Numeric Display - 130B1124  
VLT® LCP 102 Graphic display IP66 - 130B1078  
Product group: F1

Image coming soon

**175U0009** [🔗](#)

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

Mounting angle for flatpack resistor 200W



**175N2584** [🔗](#)

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

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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Image coming soon

**134B5224**

**Remote LCP unit, 5m**

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



**134B5223**

**Remote LCP unit, 3m**

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



**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

**134B1992**

**Control Terminals w/ screw connections**



**130B1106**

**VLT® LonWorks MCA 108, uncoated**

Developed for building automation, it enables communication between individual units in the same system (peer-to-peer) and supports decentralizing of control. No need for main station (master-follower). Units receive signals directly. Supports Echelon free-topology interface (flexible cabling and installation) and embedded I/Os and I/O options (easy implementation of decentral I/Os). Sensor signals can quickly be moved to another controller using bus cables. Certified as compliant with LonMark ver. 3.4 specifications.

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Accessories



**130B1144** [🔗](#)

**VLT® BACnet MCA 109, uncoated**

Open communication protocol dedicated to building automation

- Efficient integration of all parts of building automation equipment
- BACnet: standard for building automation worldwide
- International standard ISO 16484-5
- can be used in all sizes of building automation systems
- the Drive communicates easily with construction management systems running the BACnet protocol
- can be easily integrated into the network of existing control equipment

Product group: R1



**130B0295** [🔗](#)

**sparepart/terminals accessory bag**



**130B1022** [🔗](#)

**fc-300 spare part/acc.bag a2 +a3 encl.**



**134B1586** [🔗](#)

**VLT® BACNET/IP MCA125**

The VLT® BACnet/IP MCA 125 option is a plug-and-play solution that optimizes the use of VLT® HVAC Drive together with building management systems using the BACnet/IP protocol or running BACnet on Ethernet. The embedded three-port managed switch of the VLT® BACnet/IP MCA 125 option comprises two external and one internal Ethernet port. This switch allows the use of line structure for the Ethernet cabling. In modern installation this is becoming increasingly attractive

Image coming soon

**130B4847** [🔗](#)

**extension cable for lcp+communication**



**134B8492** [🔗](#)

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



**134B8493** [🔗](#)

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



**134B8494** [🔗](#)

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

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**Accessories**


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**134B8496** [🔗](#)**CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.**Image  
coming  
soon**134B8497** [🔗](#)**Cable assy, M12 female connec.10m screen**Image  
coming  
soon**134B6883** [🔗](#)**VLT Progr. Contr. MCB 301, coated****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 &amp; 1 x 0 -10 V cascading input

Output: 1 x 0 -10 V output temperature (corresponding to 0...+15 °C) &amp; 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:  $R_L > 50 \text{ k}\Omega$ 

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

Power: 24VAC/DC (± 10%) 24DC &lt;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

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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 & selection of VOC sensitivities (low/medium/high)

VOC measuring accuracy: typical  $\pm 20\%$  of final value (referred to calibrating gas)

CO2 Sensor: optical NDIR sensor (non-dispersive infra-red technology) including atmospheric pressure compensation (up to 1100 mbar) with manual or automatic calibration

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical  $\pm 30$  ppm ( $\pm 3\%$  of measured value) & temperature dependence:  $\pm 5$  ppm pro  $^{\circ}\text{C}$  or  $\pm 0,5\%$  of measured value pro  $^{\circ}\text{C}$  (whichever is higher) & pressure dependence:  $\pm 0.13\%$  per mm Hg

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

Power: 24VAC/DC ( $\pm 10\%$ ) 24DC  $< 1,6\text{W}$

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**


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**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  $-30...+150^{\circ}\text{C}$ . 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  $0^{\circ}\text{C} \pm 0,3\text{ K}$ Measuring range:  $-30...+150^{\circ}\text{C} / -22...+302^{\circ}\text{F}$ Ambient temperature:  $-20...+100^{\circ}\text{C} / -4...+212^{\circ}\text{F}$ Testing current:  $< 0.6\text{ mA}$ Insulating resistance: 100 M#, at  $+20^{\circ}\text{C}$  (500V DC)

Connection type: 2-wire connection

Measuring tube: stainless steel, V4A (1.4571),  $\varnothing 6\text{ mm}$ , 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

**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 ( $-35...+80^{\circ}\text{C}$ ), 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) /  $-35...+80^{\circ}\text{C}$  (temperature)

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

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25^{\circ}\text{C}$ , otherwise  $\pm 3.0\%$ Deviation, temperature: typical  $\pm 0.4\text{ K}$  at  $+25^{\circ}\text{C} / \pm 77^{\circ}\text{F}$ Zero point offset:  $\pm 10\%$  RH (humidity) /  $\pm 5^{\circ}\text{C}$  (temperature)Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC  $< 1,2\text{W}$ Operation temperature:  $-30...+70^{\circ}\text{C} / -22...+158^{\circ}\text{F}$ 

T3-IP65 plastic housing with two M20 cable glands

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

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## Accessories

**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

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 &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**

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS  $\pm 500$ 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 ( $-35...+80$  °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max.  $\pm 500$  Pa) with connection nozzles for pressure hose ( $\varnothing 6$  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  $\pm 2.0$  % (20...80 % RH) at  $+25$ °C/ $+77$ °F , otherwise  $\pm 3.0$  %

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

Pressure range:  $\pm 500$  Pa

Accuracy: 500 Pa/2.0 inWC: typical  $\pm 13$  Pa at  $+25$  °C /  $\pm 0.05$  inWC at  $+77$  °F

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

Power: 24VAC ( $\pm 20$ %) / 15...36VDC - 24DC  $<0,2$ W

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**


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**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  $<1,2\text{ W}$

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

T3-IP65 plastic housing with two M20 cable glands

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

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**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 ( $\varnothing 6\text{ mm}$ ) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0-10 V or 4...20 mA.

Pressure range selection:  $\pm 7000\text{ Pa}$  - 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 7000 Pa typical  $\pm 105\text{ Pa}$

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

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

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

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

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

Load resistance:  $R_L > 15\text{ kOhm}$  (at U output)

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

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



**134B9405**

**Pressure Sensor 7229 500/7000Pa, Analog**

DUAL AIR PRESSURE SENSOR ±500PA & ±7000PA, ANALOGUE

Dual pressure transmitter with 2x8 switchable measuring ranges and 2 automated analogue output signals in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose (Ø 6 mm) and a M16 cable gland for cable connection. The pressure measuring transducer automatically detects the required output type and converts the measurands into the required standard signal of 0–10 V or 4...20 mA. Pressure range selection: ± 500 Pa – 0...100Pa / 200Pa / 300Pa / 500Pa Pressure range selection: ± 7000 Pa – 0...1000Pa / 2000Pa / 3000Pa / 5000Pa / 7000Pa

Accuracy: 500 Pa typical ± 13 Pa

Accuracy: 7000 Pa typical ± 105 Pa

Zero point offset: ± 10 % of measuring range

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

Power: 24VAC/DC (± 10%) <1,3W,

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

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

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

Operation / Media temperature: -20...+50 °C / -4...+122 °F

T2-IP65 plastic housing with one M16 cable gland

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



**134B9404**

**Pressure Sensor 7225 2x500Pa, Analog**

DUAL AIR PRESSURE SENSOR ±500PA & ±500PA, ANALOGUE

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

Accuracy: 500 Pa typical ± 13 Pa

Zero point offset: ± 10 % of measuring range

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

Power: 24VAC/DC (± 10%) <1,3W,

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

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

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

Operation / Media temperature: -20...+50 °C / -4...+122 °F

T2-IP65 plastic housing with one M16 cable gland

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

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## Accessories

**134B9402****Pressure Sensor 7247T 2x7000Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 7000\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 7000\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy: 7000 Pa/28 inWC: typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power: 24VAC ( $\pm 20\%$ )  $< 0,2\text{W}$  / 15...36VDCOperation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

T2-IP65 plastic housing with two M16 cable glands &amp; 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  $\pm 500\text{Pa}$  &  $\pm 7000\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 7000\text{ Pa}$ Accuracy: 500 Pa/2.0 inWC: typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$ Accuracy: 7000 Pa/28 inWC: typical  $\pm 105\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}$  #  
 $^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power: 24VAC ( $\pm 20\%$ )  $< 0,2\text{W}$  / 15...36VDCOperation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

T2-IP65 plastic housing with two M16 cable glands &amp; 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**

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**134B9400** **Pressure Sensor 7245T 2x500Pa & PT1000**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$  &  $\pm 500\text{Pa-MB}$ 

Dual maintenance-free pressure sensor with connection facility for external Pt1000 sensor ( $-50\dots+150^\circ\text{C}$ ). Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws, connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ) and M16 cable gland for cable connection. International SI units (default) can be switched to Imperial (via Modbus). Incl. connection set ASD-06 (2 m connecting hose, two pressure port nipples, screws).

Pressure range:  $\pm 500\text{ Pa}$  and  $\pm 500\text{ Pa}$ Accuracy:  $500\text{ Pa}/2.0\text{ inWC}$ : typical  $\pm 13\text{ Pa}$  at  $+25^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77^\circ\text{F}$ Linearity:  $< \pm 1\%$  of final value & Temperature drift:  $\pm 0.1\%$  per  $^\circ\text{C}/^\circ\text{F}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove-/below-pressure: max.  $\pm 50\text{ kPa}$  /  $\pm 200\text{ inWC}$ Power:  $24\text{VAC}$  ( $\pm 20\%$ )  $< 0,2\text{W}$  /  $15\dots 36\text{VDC}$ Operation temperature:  $-30\dots+70^\circ\text{C}$  /  $-22\dots+158^\circ\text{F}$ Media temperature  $-20\dots+50^\circ\text{C}$  /  $-4\dots+122^\circ\text{F}$ 

T2-IP65 plastic housing with two M16 cable glands &amp; 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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