



**131B9575** [🔗](#)  
**FC-102P55KT4E55H1XGXXXXSXXXXA0BXCXXXXDX**  
 Frequency Converter  
 FC-102P55KT4E55H1XGXXXXSXXXXA0BXCXXXXDX  
 VLT® HVAC Drive FC-102  
 (P55K) 55 KW / 75 HP,  
 Three phase, 380 - 480 VAC, IP55 / Type 12  
 (H1) RFI Class A1/B (C1)  
 No brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: C1  
 PROFIBUS DP MCA 101 No B Option  
 No C1 option No D option

Other options according to Model Code

**Model code:** FC-102P55KT4E55H1XGXXXXSXXXXA0BXCXXXXDX

Danfoss VLT® HVAC Drive FC-102 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>           | 44.74 Kilogram |                            |  |
| <b>Net weight</b>             | 41.74 Kilogram |                            |  |
| <b>Volume</b>                 | 228.095 Liter  |                            |  |
| <b>EAN</b>                    | 5702427386303  |                            |  |
| <b>Product View (Switch)</b>  | GLBL           | Global (Standard)          |  |
| <b>Product Group</b>          | FC-            | VLT® HVAC Drive FC-        |  |
| <b>Series</b>                 | 102            | 102                        | Advanced version                                       |
| <b>Power Rating</b>           | P55K           | (P55K) 55 KW / 75 HP       | HP not Valid if T7 drive, HP usually one size down     |
| <b>Phase</b>                  | T              | Three phase                |  |
| <b>Mains Voltage</b>          | 4              | 380 - 480 VAC              |  |
| <b>Enclosure</b>              | E55            | IP55 / Type 12             | IP55 / Type 12 protected against dust and splash water |
| <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 | Graphical Local Control Panel (LCP-102)                |
| <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     | Software   |

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## PRODUCT DETAILS

|                                      |         |                         |   |
|--------------------------------------|---------|-------------------------|---|
| <b>A Option</b>                      | A0      | PROFIBUS DP MCA 101     | <H>VLT® PROFIBUS DP V1 MCA 101</H><br>>Operating the frequency converter via a field bus lets you reduce the cost of your system, communicate faster and more efficiently, and benefit from an easier user interface. PROFIBUS DP V1 gives you 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 parameterisation and auto-configuration of process data via GSD file. A-cyclic parameterisation using PROFIBUS DP V1, PROFIdrive or Danfoss FC profile state machines, PROFIBUS DP V1, Master Class 1 and 2 |
| <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      | Configuration software for speed synchronisation between drives   |
| <b>D Option</b>                      | DX      | No D option             |   |
| <b>Frame Size</b>                    | C1      | C1                      |   |
| <b>Product Catalog</b>               | NO_VIEW | NO VIEW                 |   |
| <b>Typecode Part 1</b>               |         | FC-102P55KT4E55H1XGX    |   |
| <b>Typecode Part 2</b>               |         | XXSXXXXA0BXCXXXXX       |   |
| <b>STAT NO</b>                       |         | 60376                   |   |
| <b>Power 110% (NO) [KW]</b>          | 55      | 55                      |   |
| <b>Height [mm]</b>                   | 685,0   | 685,0                   |   |
| <b>Width w/ no C options [mm]</b>    | 308,0   | 308,0                   |   |
| <b>Depth [mm]</b>                    | 311,0   | 311,0                   |   |
| <b>Depth with Option A/B [mm]</b>    | 311,0   | 311,0                   |   |
| <b>kVA</b>                           | 73.4    | 73.4                    |   |
| <b>Power Loss NO [W]</b>             | 1083    | 1083                    |   |
| <b>Power Loss NO [W]</b>             | 1083    | 1083                    |   |
| <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>Calculated Gross Weight [kg]</b>  |         | 44.74                   |   |
| <b>Calculated Package Weight</b>     |         | 3                       |   |
| <b>Calculated Net Weight [kg]</b>    |         | 41.74                   |   |
| <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-102P55KT4E55H1XGX    |   |
| <b>Modelcode02</b>                   |         | XXSXXXXA0BXCXXXXX       |   |

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## PRODUCT DETAILS

|                   |       |       |
|-------------------|-------|-------|
| Recommended Plant | ERR01 | ERR01 |
| Division          | 87    | 87    |
| Product Group     | D47   | D47   |

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

## Accessories

**130B4597** [🔗](#)**Weather shield f. outdoor instl. C1, C2**

Weather shield for enclosure sizes C1, C2

**130B3910** [🔗](#)**Back plate IP21/Type 1, IP55/Type 12, C1**

FC 300 back cover for the devices in IP21 / 55 Case size C1

**130B7533** [🔗](#)**Mounting Kit C Option, B/C/D/E/F(not B3)**

MCF105 C Option, Mounting Kit A2 and A3

**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

**130B5435** [🔗](#)**DIN Rail Mounting Kit****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**

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Accessories



**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



**130B1125** [🔗](#)

**VLT® General Purpose I/O MCB 101, uncoated**

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.



**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



**130B1156** [🔗](#)

**USB extension Cable, 650mm**

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

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## Accessories



### 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



### 130B1083 [↗](#)

#### Mounting Brackets, C1

Mounting brackets for enclosure size C1



### 130B1077 [↗](#)

#### Blindcover, w/ Danfoss logo, IP55/66

LCP Blindcover IP66



### 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.



### 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

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

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

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## Accessories

Image  
coming  
soon**134B1992** [🔗](#)**Control Terminals w/ screw connections**Image  
coming  
soon**134B7207** [🔗](#)**cable clamp/d=44-48 k48b**Image  
coming  
soon**134B7209** [🔗](#)**cable clamp/d=36-40 k40b****130B0295** [🔗](#)**sparepart/terminals accessory bag**Image  
coming  
soon**134B1968** [🔗](#)**Accessory bag for frame size C1**

Accessory bag for frame size C1

**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

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Accessories



**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

Image  
coming  
soon

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



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

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**Accessories**

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**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 &gt; 50 kOhm

Ambient temperature: –15...+50 °C / 5...+122 °F (Housing) –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**


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**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:  $\pm 5$  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 &lt;1,6W

Operation temperature:  $-10...+60$   $^{\circ}\text{C}$  /  $14...+140$   $^{\circ}\text{F}$

T2-IP65 plastic housing two M20 cable glands

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

**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  $0^{\circ}\text{C} \pm 0,3$  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: &lt; 0.6 mA

Insulating resistance: 100 M#, at  $+20$   $^{\circ}\text{C}$  (500V DC)

Connection type: 2-wire connection

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

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

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

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## Accessories

**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  $\pm 2.0$  % (20...80 % RH) at +25 °C, otherwise  $\pm 3.0$  %Deviation, temperature: typical  $\pm 0.4$  K at +25 °C /  $\pm 77$  °FZero 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

**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  $\pm 0.2$  K at +25 °C /  $\pm 77$  °FZero point offset:  $\pm 10$  °C /  $\pm 50$  °F

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

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

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**

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

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

Measuring range: 0...100 % RH (humidity) /  $-35\text{...}+80\text{ }^\circ\text{C}$  /  $-31\text{...}+176\text{ }^\circ\text{F}$  (temperature)

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

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25\text{ }^\circ\text{C}/+77\text{ }^\circ\text{F}$ , otherwise  $\pm 3.0\%$

Deviation, temperature: typical  $\pm 0.2\text{ K}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.4\text{ }^\circ\text{F}$  at  $+77\text{ }^\circ\text{F}$

Pressure range:  $\pm 7000\text{ Pa}$

Accuracy: 7000 Pa/28 inWC: typical  $\pm 105\text{ Pa}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.12\text{ inWC}$  at  $+77\text{ }^\circ\text{F}$

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

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

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

Media temperature  $-20\text{...}+50\text{ }^\circ\text{C}$  /  $-4\text{...}+122\text{ }^\circ\text{F}$  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  $\pm 500\text{Pa}$ -MB  
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ( $-35\text{...}+80\text{ }^\circ\text{C}$ ) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max.  $\pm 500\text{ Pa}$ ) with connection nozzles for pressure hose ( $\varnothing 6\text{ mm}$ ). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) /  $-35\text{...}+80\text{ }^\circ\text{C}$  /  $-31\text{...}+176\text{ }^\circ\text{F}$  (temperature)

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

Deviation, humidity: typical  $\pm 2.0\%$  (20...80 % RH) at  $+25\text{ }^\circ\text{C}/+77\text{ }^\circ\text{F}$ , otherwise  $\pm 3.0\%$

Deviation, temperature: typical  $\pm 0.2\text{ K}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.4\text{ }^\circ\text{F}$  at  $+77\text{ }^\circ\text{F}$

Pressure range:  $\pm 500\text{ Pa}$

Accuracy: 500 Pa/2.0 inWC: typical  $\pm 13\text{ Pa}$  at  $+25\text{ }^\circ\text{C}$  /  $\pm 0.05\text{ inWC}$  at  $+77\text{ }^\circ\text{F}$

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

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

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

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

**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 &lt;1,2W

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

T3-IP65 plastic housing with two M20 cable glands

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

**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 ( $\pm 10\%$ ) &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:  $R_L$  &gt; 15 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**


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

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

Accuracy: 500 Pa typical  $\pm 13\text{ Pa}$ Accuracy: 7000 Pa typical  $\pm 105\text{ Pa}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$ Power: 24VAC/DC ( $\pm 10\%$ ) &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:  $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$ 

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

**134B9404****Pressure Sensor 7225 2x500Pa, Analog**DUAL AIR PRESSURE SENSOR  $\pm 500\text{Pa}$   $\pm 500\text{Pa}$ , ANALOGUE

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

Accuracy: 500 Pa typical  $\pm 13\text{ Pa}$ Zero point offset:  $\pm 10\%$  of measuring rangeAbove- # below-pressure: max.  $\pm 50\text{ kPa}$ 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:  $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$ 

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**


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

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**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;&lt;&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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