



132H8206

FC-302N110T5E21H2XGCXXXSXXXALB4CXXXXD0

Frequency converter
 FC-302N110T5E21H2XGCXXXSXXXALB4CXXXXD0
 VLT® AutomationDrive FC-302
 (N110) 110 KW / 150 HP,
 Three phase, 380 - 500 VAC, IP21 / Type 1
 RFI Filter
 No brake chopper
 Graphical Loc. Cont. Panel
 Coated PCB, No Mains Option
 Latest release std. SW.
 Frame: D1H
 PROFINET MCA 120, MCB-114 VLT Sensor Input
 No C1 option, MCB-107 24V DC backup

Other options according to Model code

Model code: FC-302N110T5E21H2XGCXXXSXXXALB4CXXXXD0

The VLT® AutomationDrive represents a single drive concept that controls the entire range of operations from ordinary to servo like applications on any machine or production line.

View Efficiency Data

PRODUCT DETAILS

Gross weight	62.3 Kilogram		
Net weight	62 Kilogram		
EAN	5714853373161		
Product View (Switch)	GLBL	Global (Standard)	
Product Group	FC-	VLT® AutomationDrive FC-	Adjustable Frequency Converter
Series	302	302	Advanced version
Power Rating	N110	(N110) 110 KW / 150 HP	
Phase	T	Three phase	
Mains Voltage	5	380 - 500 VAC	
Enclosure	E21	IP21 / Type 1	For dry room mounting B , C, D and E Frames; A Frames not included
RFI Filter	H2	RFI Filter	H1: Integrated EMC filter. Fulfil EN 55011 Class A1/B and EN/IEC 61800-3 Category 1/2.H2: No extra EMC filter. Fulfil EN 55011 Class A2 and EN/IEC 61800-3 Category 3.H3: Integrated EMC filter. Fulfil EN 55011 class A1/B and EN/IEC 61800-3 Category 1/2 (enclosuresize A1 only).See Design Guide for specific cable length depending on power size.
Brake - Safe Stop	X	No brake chopper	
LCP	G	Graphical Loc. Cont. Panel	Graphical Local Control Panel (LCP-102)

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Product Detail | FC-302N110T5E21H2XGCXXXSXXXALB4CXXXD0

PRODUCT DETAILS

Coating PCB	C	Coated PCB	
Mains Option	X	No Mains Option	
Adaptation A	X	Standard Cable Entries	
Adaptation B	X	No adaptation	
Software Release	SXXX	Latest release std. SW.	
Software Language Pack	X	Standard Language Pack	Software
A Option	AL	PROFINET MCA 120	
B Option	B4	MCB-114 VLT Sensor Input	<H>VLT® Sensor Input Card MCB 114</H>The option protects the motor from being overheated by monitoring the bearings and windings temperature in the motor. The limits as well as the action are adjustable and the individual sensor temperature is visible as a read out in the display or by field bus. Protects the motor from overheating. Three self-detecting sensor inputs for 2 or 3 wire PT100/PT1000 sensors. One additional analogue input 4-20mA
C0 Option MCO	CX	No C0 option	
C1 Option	X	No C1 option	
C Option Software	XX	No software option	Configuration software for speed synchronisation between drives
D Option	D0	MCB-107 24V DC backup	
Frame Size	D1H	D1H	
Typecode Part 1		FC-302N110T5E21H2XGC	
Typecode Part 2		XXXSXXXALB4CXXXD0	
Product Catalog	NO_VIEW	NO VIEW	
STAT NO		33198	
Power 150% (HO) [KW]	110	110	
Power 110% (NO) [KW]	132	132	
Height [mm]	901,0	901,0	
Width w/ no C options [mm]	325,0	325,0	
Depth [mm]	378,0	378,0	
Depth with Option A/B [mm]	378,0	378,0	
kVA	147	147	
Power Loss NO [W]	2954	2954	
Power Loss NO [W]	2724	2724	
Power Loss HO [W]	2289	2289	
Power Loss HO [W]	2051	2051	
Continuous Current (NO) [A]	260	260	
Intermittent Current (NO) [A]	286	286	
Continuous Current (NO) [A]	240	240	
Intermittent Current (NO) [A]	264	264	
Continuous Current (HO) [A]	212	212	
Intermittent Current (HO) [A]	318	318	
Continuous Current (HO) [A]	190	190	
Intermittent Current (HO) [A]	285	285	
Calculated Gross Weight [kg]		62.3	
Calculated Package Weight		0.3	

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PRODUCT DETAILS

Calculated Net Weight [kg]		62
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Vendor	ERR01	Cannot Determine Vendor
Recommended Factory	ERR01	Cannot Determine Vendor
Modelcode01		FC-302N110T5E21H2XGC
Modelcode02		XXXSXXXALB4CXXXD0
Recommended Plant	ERR01	ERR01

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

Accessories

Image
coming
soon

176F3656 [🔗](#)

Cooling Kit, in back/out back, SS, D1h

Image
coming
soon

176F3648 [🔗](#)

Cooling Kit, in back/out back, D1h

Image
coming
soon

176F3631 [🔗](#)

Pedestal Kit, 400mm, D1h

Sub-base kit, H 400 mm for VLT FC New Generation D-Frame, housing size D1h. For use with floor installation / assembly of the VLT in IP21 / 54. Contains components / assembly parts and fastening material.

Image
coming
soon

176F3409 [🔗](#)

Adapter Plate, D1h/D3h

VLT® drive replace adptr plate d1h d3h

Image
coming
soon

176F6339 [🔗](#)

VLT® Mains Shield Kit D1H Framesize

**130B7635** [🔗](#)

VLT® Lift Controller MCO 361

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

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

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Accessories

**130B7145** [🔗](#)
VLT® SALT Controller MCO 360**130B1234** [🔗](#)
VLT® Motion Control MCO 305, coated

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function)

10 digital inputs

- 8 digital outputs

- Sends and receives data via fieldbus interface (requires fieldbus option)

- PC software for programming and commissioning

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

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

Danfoss MCO options are not sold without prior advice.

Danfoss can offer help with programming / setting up MCO options.

Contact Danfoss for advice and prices.

Product group: R

**130B1264** [🔗](#)
VLT® Extended Relay Card MCB 113, ctd

Adds 7 digital inputs and 2 analog outputs for increased flexibility. 4

SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.

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

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Accessories

**130B1253** [🔗](#)**VLT® Position Controller MCO 351, ctd**

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

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

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

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Product group: R

**130B1252** [🔗](#)**VLT® Synchronizing Ctrl. MCO 350, ctd**

MCO 350 - synchronous controller

Based on the MCO 305 prefabricated controller for Synchronization tasks. The adjustment takes place through parameter settings. Specific Programming skills are not required.

- 2 encoder inputs, both for incremental as well as absolute encoder
- 1 encoder output (virtual master function)
- 10 additional digital inputs
- 8 additional digital outputs
- fieldbus Communication (requires fieldbus card) with reinforced coating

**130B1170** [🔗](#)**LCP Panel Mounting Kit**

The kit includes fasteners and gasket. No LCP and no cable included.

**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.

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

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Accessories



130B1134

VLT® Motion Control MCO 305, uncoated

Integrated and programmable motion controller for VLT® AutomationDrive FC 301 and FC 302

- Adds additional functionality and flexibility as it is a freely programmable module
- Optimized for all types of positioning and synchronization applications
- Make your own program specially adapted to your application

Contains:

- synchronization (electronic shaft), positioning and electronic cam control
- 2 inputs support both stepwise and absolute encoders
- 1 encoder output (virtual master function)

10 digital inputs

8 digital outputs

- Sends and receives data via fieldbus interface (requires fieldbus Option)
- PC software for programming and commissioning.

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

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3.

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

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Product group: R



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.



130B1114

LCP Mounting Kit w/ numerical LCP101, 3m

The kit includes numerical LCP, fasteners, 3m cable and gasket.



130B1113

Lcp panel kit/fc300 fg-lcp panel kit

The kit includes graphical LCP, fasteners, 3m cable and gasket.

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**130B1153** [🔗](#)**VLT® Position Controller MCO351, unctd**

Extends the functional characteristics of the frequency converter in positioning applications

- Direct positioning via fieldbus, relative positioning, absolute positioning and touch probe positioning
- End stop handling (software and hardware)
- Mechanical brake handling (programmable hold delay)

Error handling

- Jog speed / manual operation
- None for programming, as it is pre-programmed

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

130B7530 - Mounting kit for enclosures A2 and A3

130B7531 - Mounting kit for MCO Option, together with MCB 113, in enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B1414 - Mounting kit for MCO Option, together with MCB 113, in enclosure B3

130B7532 - Mounting kit for enclosure A5

130B7533 - Mounting kit for all enclosures B, C, D, E and F (B3 excepted)

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Product group: R

**130B1152** [🔗](#)**VLT® Synchronizing Contr. MCO350, unctd**

Expands the functional properties of the VLT® AutomationDrive in synchronizing applications, and replaces traditional mechanical solutions. Speed synchronizing. Position (angle) synchronizing with or without marker correction. Online adjustable gear ratio. Online adjustable position (angle) offset. Encoder output with virtual master function for synchronization of multiple followers. Control via I/Os or fieldbus. Home function. Configuration as well as read-out of status and data via the Local Control Panel of the drive.

**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

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Accessories



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



130B1088 [🔗](#)

LCP Blindcover, w/ Danfoss logo, IP20/21



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

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

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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

134B1992

Control Terminals w/ screw connections



130B1266

VLT MCB 115 Programmable I/O, coated

VLT® MCB 115 programmable I / O, coated



134B6544

Real Time Clock D slot option MCB117

The VLT® Real-time clock option MCB 117 option provides advanced data-logging functionality to the following drives

- VLT® HVAC Drive FC 102
- VLT® Refrigeration Drive FC 103
- VLT® Aqua Drive FC 202
- VLT® Automation Drive FC 301/FC 302

Image coming soon

176F3812

KIT, MULTI WIRE, MOTOR, BB, D1H, D3H, P454

Image coming soon

176F3817

KIT, MULTI WIRE, D1H, P454

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Accessories

Image
coming
soon**176F3854** [🔗](#)**KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454**
KIT,MULTI WIRE,MAINS,BB,D1H/D3H,P454Image
coming
soon**176F6770** [🔗](#)**KIT, COMMON MODE, T5/50M, P454**Image
coming
soon**176F3522** [🔗](#)**kit,cooling,in bottom out back,d1h d3h**Image
coming
soon**176F3532** [🔗](#)**kit,cooling,in-back/out-back,pedstl,d1h****130B0295** [🔗](#)**sparepart/terminals accessory bag**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****134B8496** [🔗](#)**CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.**

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134B8497 [🔗](#)

Cable assy, M12 female connec.10m screen

Image
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soon

134B6883 [🔗](#)

VLT Progr. Contr. MCB 301, coated



134B9425 [🔗](#)

Enclosure protection in Stainl Steel V2A

WEATHER AND SUN PROTECTION HOOD

Weather and sun protection hood in stainless steel V2A, 200 x 180 x 150 mm / 7.87 x 7.1 x 5.9 in



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

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Accessories



134B9413 [↗](#)

Airflow Sensor KLQ CO2 & Air Quality

DUCT AIR QUALITY (VOC) AND CO2 SENSOR KLQ-CO2-MB

Maintenance-free duct sensor covering air quality (VOC 0...100 %), carbon dioxide (CO2 0...5000 ppm) and atmospheric pressure (hPa). The air quality is detected by a VOC sensor (mixed gas sensor for volatile organic substances) and include an automatic calibration. It determines the loading of the room air due to contaminated gases such as cigarette smoke, body perspiration, exhaled breathing air, solvent vapors, emissions etc. The air contamination can be selected into different sensitivity ranges as low, medium or high. The CO2 measurement is performed using an optical NDIR sensor (non-dispersive infra-red technology), and the detection range is calibrated for standard applications such as monitoring residential rooms and conference rooms. A microprocessor-controlled solution with factory sensor calibration, Modbus RTU connection in a resistant IP65 plastic housing with mounting flange, quick-locking screws and two M16 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

VOC Sensor: Volatile Organic Compounds sensor (metal oxide) with automatic calibration

VOC measuring range: 0...100 % air quality; referred to calibrating gas

temperature dependence: ± 5 ppm pro $^{\circ}\text{C}$ or $\pm 0,5$ % of measured value pro

$^{\circ}\text{C}$ (whichever is higher) pressure dependence: ± 0.13 % per mm Hg

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

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

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

T2-IP65 plastic housing two M20 cable glands

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



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: < 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 ± 2.0 % (20...80 % RH) at +25 °C, otherwise ± 3.0 %Deviation, temperature: typical ± 0.4 K at +25 °C / ± 77 °FZero point offset: ± 10 % RH (humidity) / ± 5 °C (temperature)Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

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

T3-IP65 plastic housing with two M20 cable glands

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

**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 °FZero 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 ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

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

T3-IP65 plastic housing with two M20 cable glands

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

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Accessories

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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 ($-35...+80\text{ }^\circ\text{C}$) 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) / $-35...+80\text{ }^\circ\text{C}$ / $-31...+176\text{ }^\circ\text{F}$ (temperature)

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

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

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

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

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 <0,2W

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

Media temperature $-20...+50\text{ }^\circ\text{C}$ / $-4...+122\text{ }^\circ\text{F}$ IP65 plastic housing two

M16 cable glands

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

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Accessories

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ± 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. ± 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 ± 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 <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

**134B9407****Airflow Sensor KFTF Temp & Humidity**

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

Calibratable duct humidity and temperature sensor KFTF-T3 ($\pm 2.0\%$) with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection and a plastic sinter filter (exchangeable). Including mounting flange to detect the relative humidity (0...100% RH) and the temperature ($-35...+80\text{ }^{\circ}\text{C}$) inside a tube, including various parameters in the humidity measurement. The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices.

International SI units (default) can be switched to Imperial (via Modbus).

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

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

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

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

Zero point offset: $\pm 10\%$ RH (humidity) / $\pm 5\text{ }^{\circ}\text{C}$ (temperature)

Power: 24VAC ($\pm 20\%$) / 15...36VDC - 24DC <1,2W

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

T3-IP65 plastic housing with two M20 cable glands

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

**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 ($\pm 10\%$) <1,3W,

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

**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 ($\pm 10\%$) <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 ($\pm 10\%$) <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



134B9402 [🔗](#)

Pressure Sensor 7247T 2x7000PPa & PT1000

DUAL AIR PRESSURE SENSOR ±7000PA Temperature drift: ± 0.1 % per °C # °F
 Zero point offset: ± 10 % of measuring range
 Above- # below-pressure: max. ± 50 kPa / ± 200 inWC
 Power: 24VAC (± 20%) <0,2W / 15...36VDC
 Operation temperature: -30...+70 °C / -22...+158 °F
 Media temperature -20...+50 °C / -4...+122 °F
 T2-IP65 plastic housing with two M16 cable glands one M12 for temperature
 Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



134B9401 [🔗](#)

Pressure Sensor 7249T 500/7000Pa & PT1000

DUAL AIR PRESSURE SENSOR ±500PA Temperature drift: ± 0.1 % per °C # °F
 Zero point offset: ± 10 % of measuring range
 Above- # below-pressure: max. ± 50 kPa / ± 200 inWC
 Power: 24VAC (± 20%) <0,2W / 15...36VDC
 Operation temperature: -30...+70 °C / -22...+158 °F
 Media temperature -20...+50 °C / -4...+122 °F
 T2-IP65 plastic housing with two M16 cable glands one M12 for temperature
 Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



134B9400 [🔗](#)

Pressure Sensor 7245T 2x500Pa & PT1000

DUAL AIR PRESSURE SENSOR ±500PA Temperature drift: ± 0.1% per °C/°F
 Zero point offset: ± 10 % of measuring range
 Above-/below-pressure: max. ± 50 kPa / ± 200 inWC
 Power: 24VAC (± 20%) <0,2W / 15...36VDC
 Operation temperature: -30...+70 °C / -22...+158 °F
 Media temperature -20...+50 °C / -4...+122 °F
 T2-IP65 plastic housing with two M16 cable glands one M12 for temperature
 Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in



130B5601 [🔗](#)

VLT® DeviceNet converter MCA194 coated

VLT® DeviceNet converter MCA194 coated

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