



136U9731

FC-202P15KT4E55H1XGX1XXSXXXXALBXCXXXXD0

Frequency converter
 FC-202P15KT4E55H1XGX1XXSXXXXALBXCXXXXD0
 VLT® AQUA Drive FC-202
 (P15K) 15 KW / 20 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, Mains Disconnect
 Latest release std. SW.
 Frame: B1
 PROFINET MCA 120, No B Option
 No C1 option, MCB-107 24V DC backup

Other options according to Model code

Model code: FC-202P15KT4E55H1XGX1XXSXXXXALBXCXXXXD0

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

[View Efficiency Data](#)

PRODUCT DETAILS

Gross weight		24.77 Kilogram
Net weight		21.15 Kilogram
Volume		105.71 Liter
EAN		5714853078738
Product View (Switch)	GLBL	Global (Standard)
Product Group	FC-	VLT® AQUA Drive FC-
Series	202	202
Power Rating	P15K	(P15K) 15 KW / 20 HP
Phase	T	Three phase
Mains Voltage	4	380 - 480 VAC
Enclosure	E55	IP55 / Type 12
RFI Filter	H1	(H1) RFI Class A1/B (C1)
Brake - Safe Stop	X	No brake chopper
LCP	G	Graphical Loc. Cont. Panel
Coating PCB	X	Not coated PCB
Mains Option	1	Mains Disconnect
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
A Option	AL	PROFINET MCA 120
B Option	BX	No B Option
C0 Option MCO	CX	No C0 option

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Product Detail | FC-202P15KT4E55H1XGX1XXSXXXALBXCXXXD0

PRODUCT DETAILS

C1 Option	X	No C1 option
C Option Software	XX	No software option
D Option	D0	MCB-107 24V DC backup
Frame Size	B1	B1
Typecode Part 1		FC-202P15KT4E55H1XGX
Typecode Part 2		1XXSXXXALBXCXXXD0
Product Catalog	GLBL	Global (Standard)
Power 160% (HO) [KW]	11	11
Power 110% (NO) [KW]	15	15
Height [mm]	494,0	494,0
Width w/ no C options [mm]	243,0	243,0
Depth [mm]	261,0	261,0
Depth with Option A/B [mm]	261,0	261,0
kVA	22.2	22.2
Power Loss NO [W]	392	392
Power Loss NO [W]	392	392
Power Loss HO [W]	291	291
Power Loss HO [W]	291	291
Continuous Current (NO) [A]	32	32
Intermittent Current (NO) [A]	35.2	35.2
Continuous Current (NO) [A]	27	27
Intermittent Current (NO) [A]	29.7	29.7
Continuous Current (HO) [A]	24	24
Intermittent Current (HO) [A]	38.4	38.4
Continuous Current (HO) [A]	21	21
Intermittent Current (HO) [A]	33.6	33.6
Calculated Gross Weight [kg]		24.77
Calculated Net Weight [kg]		21.15
ECCN EU	Y901	Y901
ECCN US	3A999.a	3A999.a
Plant from Orderline	B901	B901
Vendor	ERR01	Cannot Determine Vendor
Producing plant	ERR01	Cannot Determine Vendor
Modelcode01		FC-202P15KT4E55H1XGX
Modelcode02		1XXSXXXALBXCXXXD0
Delivering plant	ERR01	ERR01

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

Accessories



130B0295 [🔗](#)

sparepart/terminals accessory bag

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Accessories

**130B1046** [🔗](#)**Panel Through Mounting Kit, B1**

Push-through frame kit for FC size B1. Contains mounting frame, seal, fastening material and assembly instructions.

**130B1070** [🔗](#)**RS485 plug, FC series, 10 pcs**

10pcs RS485 connectors for FC-series.
Product group: R

**130B1071** [🔗](#)**6 Pole Connector, FC series, 10 pcs**

6-pole spring cage connectors 10 pcs

**130B1077** [🔗](#)**Blindcover, w/ Danfoss logo, IP55/66**

LCP Blindcover IP66

**130B1078** [🔗](#)**VLT® Control Panel LCP 102, graphical**

LCP 102 - graphic control unit for FC100 / 200/300, degree of protection IP66

**130B1081** [🔗](#)**Mounting Brackets, B1**

Mounting brackets for enclosure size B1

**130B1088** [🔗](#)**LCP Blindcover, w/ Danfoss logo, IP20/21****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.

**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

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Accessories

**130B1113** [🔗](#)**LCP Mounting Kit w/ graphical LCP102, 3m**

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

**130B1114** [🔗](#)**LCP Mounting Kit w/ numerical LCP101, 3m**

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

**130B1117** [🔗](#)**LCP Mounting Kit, w/ no LCP**

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

**130B1118** [🔗](#)**VLT® Ext. Cascade Contr. MCO 101, unctd**

CIRCUITOS MODULARES PARA CONTROLADORES DE VELOCIDAD DE MOTORES ELECTRICOS

**130B1124** [🔗](#)**VLT® Control Panel LCP 101, numeric**

Numerical control unit for FC 100 and FC 300. Allows access to all device parameters. Quick menu for brief commissioning. Manual / auto switchover and alarm acknowledgment.

**130B1125** [🔗](#)**VLT® General Purpose I/O MCB 101, unctd**

MCB 101 - Advanced I / O option

Expands the number of freely programmable Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
 - 2 analog inputs 0 - 10 V.
 - 2 digital outputs NPN / PNP switchable 24 V
 - 1 analog output 0/4 - 20 mA
-

**130B1129** [🔗](#)**LCP Mounting Kit FC IP55/66, 8m**

The kit includes fasteners, 8m cable, gasket and a blind cover to ensure IP55/ 66 after the LCP has been mounted elsewhere. The 8m cable is open in one end and the connector block is included in the package. No LCP included.

**130B1137** [🔗](#)**VLT® PTC Thermistor Card MCB 112, ctd**

MCB 112 PTC - thermistor relay MS220DA In connection with ATEX certified explosion-proof motors for full motor protection. Certified PTC sensors are the sole protection required. Integrable module with ATEX-compliant full thermal motor protection 1 PTB-certified PTC thermistor input 1 switch-off signal for using the Safe Stop function 1 logic output for error identification

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

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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

**130B1154** [🔗](#)**VLT® Adv. Cascade Contr. MCO 102, ctd**

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

**130B1155** [🔗](#)**USB extension Cable, 350mm**

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

**130B1157** [🔗](#)**oem customer graphic lcp**

OEM version LCP102 w. no Danfoss branding.

**130B1164** [🔗](#)**VLT® Extended Relay Card MCB 113**

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

SPDT relays. Meets NAMUR recommendations. Galvanic isolation capability.

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

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

**130B1172** [🔗](#)**VLT® Sensor Input Card MCB 114, unctd**

Protects the motor from being overheated by monitoring the temperature of bearings and windings in the motor. Three self-detecting sensor inputs for 2 or 3 wire PT100/PT1000 sensors. One additional analog input 4–20 mA.

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

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Accessories

**130B1210** [🔗](#)**VLT® Relay Option MCB 105, coated**

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

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

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

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

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

**130B1212** [🔗](#)**VLT® General Purpose I/O MCB 101, ctd**

MCB 101 - Advanced I / O option Expands the number of freely programmable Control inputs and outputs around the following I / Os:

- 3 digital inputs opto-decoupled 0 - 24 V.
- 2 analog inputs 0 - 10 V.
- 2 digital outputs NPN / PNP switchable 24 V
- 1 analog output 0/4 - 20 mA with reinforced coating

**130B1218** [🔗](#)**VLT® Ext. Cascade Contr. MCO 101, ctd**

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

**130B1243** [🔗](#)**VLT® Analog I/O Option MCB 109, coated**

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

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

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Accessories



130B1254 [🔗](#)

VLT® Adv. Cascade Contr. MCO 102, ctd

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

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

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

130B7530 - Mounting kit for enclosures A2 and A3

130B1413 - Mounting kit for enclosure B3

130B7532 - Mounting kit for enclosure A5

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

Danfoss MCO options are not sold without prior advice. Danfoss can offer help with programming / setting up MCO options. Contact Danfoss for advice and prices.

Product group: R



130B1272 [🔗](#)

VLT® Sensor Input Card MCB 114, coated

MCB 114 - PT100 / PT1000 option For FC100-FC200 and FC302 (painted version). Enables the evaluation of up to 3 PT 100 or 3 PT 1000 sensors

- Connection of 2 and 3 wire sensors
- Automatic detection of the sensor type
- Additional 4-20mA input



130B3383 [🔗](#)

Back plate IP21/Type 1, IP55/Type 12, B1

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



130B4598 [🔗](#)

Weather shield f. outdoor instl A4 to B2

Weather shield for enclosure sizes A4, A5, B1, B2

Image
coming
soon

130B4847 [🔗](#)

extension cable for lcp+communication



130B5435 [🔗](#)

DIN Rail Mounting Kit

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Accessories



130B5436 [🔗](#)
Side Fixture Mounting Kit

Side Fixture Mounting Kit for enclosure size A5 / B1 / B2 / C1 / C2
To be used when retrofitting the following MCA options:
MCA 120 Profinet
MCA 121 EtherNet
MCA 122 Modbus TCP
MCA 123 POWERLINK
MCA 124 EtherCAT
Product group: R1



130B7533 [🔗](#)
Mounting Kit C Option, B/C/D/E/F(not B3)
MCF105 C Option, Mounting Kit A2 and A3

Image coming soon

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

Image coming soon

134B1992 [🔗](#)
Control Terminals w/ screw connections



134B5223 [🔗](#)
Remote LCP unit, 3m
Remote mounting kit for LCP with cover for outdoor mounting with 3 m (10 ft) cable

Image coming soon

134B5224 [🔗](#)
Remote LCP unit, 5m
Remote mounting kit for LCP with cover for outdoor mounting with 5 m (16 ft) cable

Image coming soon

134B5225 [🔗](#)
Remote LCP unit, 10m
Remote mounting kit for LCP with cover for outdoor mounting with 10 m (33 ft) cable



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

Image coming soon

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

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Accessories



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



134B7466 [↗](#)
Option A Ethernet Package



134B8492 [↗](#)
Transducer 0-10g, 4-20mA; HS-22B50



134B8493 [↗](#)
Transducer 0-25mm/s RMS 4-20mA
 CBM Transducer 0-25mm/s RMS 4-20mA



134B8494 [↗](#)
Transducer w, temp 0-25mm/s RMS 4-20mA



134B8496 [↗](#)
CABLE ASSY 10M, STRAIGHT SOCKET CONNETC.

Image
coming
soon

134B8497 [↗](#)
Cable assy, M12 female connec.10m screen



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: $24\text{VAC} (\pm 20\%)$ & & & $0,2\text{W} / 15 \dots 36\text{VDC}$
 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: $126 \times 90 \times 50\text{ mm} / 4.96 \times 3.54 \times 1.97\text{ in}$

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

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Accessories

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

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

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

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

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

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

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

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

**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 ($\varnothing 6\text{ mm}$) 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: $\pm 500\text{ Pa}$ – 0...100Pa / 200Pa / 300Pa / 500Pa

Accuracy: 500 Pa typical $\pm 13\text{ Pa}$

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: $\pm 500\text{ Pa} - 0 \dots 100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ Pressure range selection: $\pm 7000\text{ Pa} - 0 \dots 1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$

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: $-20 \dots +50\text{ }^\circ\text{C} / -4 \dots +122\text{ }^\circ\text{F}$

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

**134B9406****Pressure Sensor 7227 2x7000Pa, Analog**DUAL AIR PRESSURE SENSOR $\pm 7000\text{Pa}$ $\pm 7000\text{Pa}$, ANALOGUE

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

Pressure range selection: $\pm 7000\text{ Pa} - 0 \dots 1000\text{Pa} / 2000\text{Pa} / 3000\text{Pa} / 5000\text{Pa} / 7000\text{Pa}$ 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: $-20 \dots +50\text{ }^\circ\text{C} / -4 \dots +122\text{ }^\circ\text{F}$

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

**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

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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 ($-35...+80\text{ }^{\circ}\text{C}$) 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) / $-35...+80\text{ }^{\circ}\text{C}$ / $-31... +176\text{ }^{\circ}\text{F}$ (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: $\pm 500\text{ Pa}$

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 <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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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

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

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB
Calibratable outside temperature sensor ATM2, PT1000 measure temperature ($-50...+150\text{ }^\circ\text{C}$), 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: $-50...+150\text{ }^\circ\text{C}$ / $-31... +176\text{ }^\circ\text{F}$

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

Zero point offset: $\pm 10\text{ }^\circ\text{C}$ / $\pm 50\text{ }^\circ\text{F}$

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

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

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

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**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

**134B9412** **Airflow Sensor TF65 PT1000 Temperature**

DUCT TEMPERATURE SENSOR TF 65

The TF 65 temperature measuring transducer is a PT1000 class B resistance sensor with passive output. Measuring range from -30...+150 °C. In a resistant IP67 plastic housing and M16 cable gland for cable connection and a straight protective measuring tube and a mounting flange.

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at 0°C $\pm 0,3$ K

Measuring range: -30...+150 °C / -22...+302 °F

Ambient temperature: -20...+100 °C / -4...+212 °F

Testing current: &lt; 0.6 mA

Insulating resistance: 100 M#, at +20 °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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**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

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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 > 50 kOhm

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

Power: 24VAC/DC (± 10%) 24DC < 2,4W

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

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

**175N2584** **VLT® EtherNet/IP Modbus TCP gateway**Image
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soon**175U0009** **Mounting bracket Kit, 216 x 30 x 18mm**

Mounting angle for flatpack resistor 200W

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

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

Alphanumeric control panel LCP3 - 175N0131

VLT® LCP 102 Graphic Display - 130B1107

VLT® LCP 101 Numeric Display - 130B1124

VLT® LCP 102 Graphic display IP66 - 130B1078

Product group: F1

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185B0010 [🔗](#)

FC-202 Demo Case - 120 Vac Supply

Elevate your sales presentations and on-site training with this high-impact, portable VFD demo kit. Showcasing the Danfoss VLT® FC 202 drive, this suitcase provides a dynamic, hands-on experience for demonstrating the benefits of variable frequency drives in motor control. The integrated flywheel and controls simulate a mechanical load, offering a realistic, visual representation of VFD capabilities. 120VAC Supply (Standard outlet in North America) Dimensions: 24.75 in. x 19.50 in. x 12 in. (63 cm x 50 cm x 30 cm)

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