



**131B5946**

**FC-302P22KT5E20H1XGXXXXXXXAXBXXXXDX**

Frequency converter  
 FC-302P22KT5E20H1XGXXXXXXXAXBXXXXDX  
 VLT® AutomationDrive FC-302  
 (P22K) 22 KW / 30 HP,  
 Three phase, 380 - 500 VAC, (E20) IP20 / Chassis  
 (H1) RFI Class A1/B (C1)  
 No brake chopper  
 Graphical Loc. Cont. Panel  
 Not coated PCB, No Mains Option  
 Latest release std. SW.  
 Frame: B4  
 No A Option, No B Option  
 No C1 option, No D option

Other options according to Model code

**Model code:** FC-302P22KT5E20H1XGXXXXXXXAXBXXXXDX

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**

<b>Gross weight</b>		24.09 Kilogram
<b>Net weight</b>		20.39 Kilogram
<b>Volume</b>		105.71 Liter
<b>EAN</b>		5702427336490
<b>Product View (Switch)</b>	GLBL	Global (Standard)
<b>Product Group</b>	FC-	VLT® AutomationDrive FC-
<b>Series</b>	302	302
<b>Power Rating</b>	P22K	(P22K) 22 KW / 30 HP
<b>Phase</b>	T	Three phase
<b>Mains Voltage</b>	5	380 - 500 VAC
<b>Enclosure</b>	E20	(E20) IP20 / Chassis
<b>RFI Filter</b>	H1	(H1) RFI Class A1/B (C1)
<b>Brake - Safe Stop</b>	X	No brake chopper
<b>LCP</b>	G	Graphical Loc. Cont. Panel
<b>Coating PCB</b>	X	Not coated PCB
<b>Mains Option</b>	X	No Mains Option
<b>Adaptation A</b>	X	Standard Cable Entries
<b>Adaptation B</b>	X	No adaptation
<b>Software Release</b>	SXXX	Latest release std. SW.
<b>Software Language Pack</b>	X	Standard Language Pack
<b>A Option</b>	AX	No A Option
<b>B Option</b>	BX	No B Option
<b>C0 Option MCO</b>	CX	No C0 option
<b>C1 Option</b>	X	No C1 option

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## Product Detail | FC-302P22KT5E20H1XGXXXXXXXAXBXCXXXXX

## PRODUCT DETAILS

<b>C Option Software</b>	XX	No software option
<b>D Option</b>	DX	No D option
<b>Frame Size</b>	B4	B4
<b>Typecode Part 1</b>		FC-302P22KT5E20H1XGX
<b>Typecode Part 2</b>		XXXXXXXXAXBXCXXXXX
<b>Product Catalog</b>	NO_VIEW	NO VIEW
<b>STAT NO</b>		33097
<b>Power 160% (HO) [KW]</b>	22	22
<b>Power 110% (NO) [KW]</b>	30	30
<b>Height [mm]</b>	516,0	516,0
<b>Width w/ no C options [mm]</b>	229,0	229,0
<b>Depth [mm]</b>	242,0	242,0
<b>Depth with Option A/B [mm]</b>	242,0	242,0
<b>kVA</b>	30.5	30.5
<b>Power Loss NO [W]</b>	739	739
<b>Power Loss NO [W]</b>	739	739
<b>Power Loss HO [W]</b>	547	547
<b>Power Loss HO [W]</b>	547	547
<b>Continuous Current (NO) [A]</b>	61	61
<b>Intermittent Current (NO) [A]</b>	67.1	67.1
<b>Continuous Current (NO) [A]</b>	52	52
<b>Intermittent Current (NO) [A]</b>	57.2	57.2
<b>Continuous Current (HO) [A]</b>	44	44
<b>Intermittent Current (HO) [A]</b>	70.4	70.4
<b>Continuous Current (HO) [A]</b>	40	40
<b>Intermittent Current (HO) [A]</b>	64	64
<b>Calculated Gross Weight [kg]</b>		24.09
<b>Calculated Package Weight</b>		3.7
<b>Calculated Net Weight [kg]</b>		20.39
<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-302P22KT5E20H1XGX
<b>Modelcode02</b>		XXXXXXXXAXBXCXXXXX
<b>Recommended Plant</b>	ERR01	ERR01

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

## Accessories

Image  
coming  
soon

**130B3290** [🔗](#)**VLT® Safe option MCB 151, coated**

VLT® Safe option MCB 151, painted for HTL feedback, can be used up to PL d or SIL 2

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

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Accessories



**130B3280** [🔗](#)

**VLT® Safe option MCB 150, coated**

Safety modules enable machines to interact intelligently with operators to increase safety, reduce system costs, improve flexibility and increase productivity.

VLT® MCB 15x Safe options provide an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling.

The new safety module is certified according to ISO 13849-1 PL d Category 3 and SIL 2 according to IEC 61508.



**130B4172** [🔗](#)

**Back plate IP20/Chassis, B4**

Back plate IP20/Type 1, enclosure size B4



**130B7533** [🔗](#)

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

MCF105 C Option, Mounting Kit A2 and A3



**130B7635** [🔗](#)

**VLT® Lift Controller MCO 361**

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



**130B7145** [🔗](#)

**VLT® SALT Controller MCO 360**



**130B9860** [🔗](#)

**VLT® Safety Option MCB152, coated**

Safety modules enable machines to interact intelligently with operators to increase safety, reduce system costs, improve flexibility and increase productivity.

VLT® Safety Option MCB152 provides an intelligent, user-friendly solution to meet the IEC 61800-5-2 functional safety standard and helps to reduce cabling. MCB152 enables activation of the Safe Torque Off (STO) irrespective of where a hazard occurs.

The new safety module is certified according to ISO 13849-1 PL d Category 3 and SIL 2 according to EN IEC 61508.

The combination of VLT® Safety Option MCB152, PROFINET fieldbus option MCA120, and the control card of the VLT® AutomationDrive constitutes a PROFIsafe device.

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

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**Accessories**

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**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****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

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**Accessories**

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**130B1245** [↗](#)**VLT® PROFIBUS Converter MCA 113, ctd**

Ensures easy and quick replacement of VLT®3000 to VLT® AutomationDrive

- - VLT® 3000 can then be replaced by VLT® AutomationDrive or
  - the system Can be expanded without costly changes to the PLC program
  - Flexible investment as it is easy to remove and replace option when upgrading to another fieldbus
- Product group: R1

**130B1227** [↗](#)**VLT® Resolver Input MCB 103, coated**

Resolver extension for FC 300. Enables the connection of the following

Resolver types:

Input voltage: 4..8 Vrms

Input frequency: 2.5..15 kHz

Number of resolver poles: 2 or 4

**130B1220** [↗](#)**VLT® Safe PLC I/O MCB 108, coated**

Increases security and helps you meet requirement security levels

- VLT® AutomationDrive FC 302 has a safety input based on a single pole 24 V DC input
- Security in a cost-effective way

Possibility of connection to two conductor safety system

Possibility to interrupt on the plus or minus side without disturbing the sensor signal

**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.

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

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**Accessories**


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**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)

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

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**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
- 

**130B1196** [🔗](#)**VLT® Modbus TCP MCA 122**

MCA 122 Modbus TCP interface Complex compatibility tests make the perfect operation in Modbus TCP systems for sure.

- On Board web-Page with Drive Status
  - Parameterization with MCT10 software
  - 2 port version reduces effort for external hardware (switch, cables, etc.) and allows flexible bus topologies
- 

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**Accessories**


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**130B1190** [🔗](#)**IP21 conversion kit, top, B4**

IP21 top cover for enclosure B4  
Product group: R1

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**130B1189** [🔗](#)**IP21 conversion kit for B4 frame.**

IP21 cover for enclosure B4  
Product group: R1

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**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.

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

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

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**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

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**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

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**Accessories**


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**130B1208** [🔗](#)**1xMCB 107 24V DC coat w. mount. brackets**

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

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**130B1205** [🔗](#)**VLT® CAN Open MCA 105, coated**

CANopen interface for FC 300. Max. Baud rate 500 kBit / s. Support that DSP402 drive profile and PDO / SDO communication. Painted version for harsh environments. Easy to retrofit thanks to modular technology.

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**130B1203** [🔗](#)**VLT® Encoder Input MCB 102, coated**

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.

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**130B1202** [🔗](#)**VLT® DeviceNet MCA 104, coated**

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

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**130B1387** [🔗](#)**5xMCB107 24VDC no coat w.out mount brack****130B1386** [🔗](#)**VLT® Profibus DP V1 MCA 101, ctd, 5pcs****130B1385** [🔗](#)**VLT® Profibus DP V1 MCA101, unctd 5pcs****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
- 

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Accessories



**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.



**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



**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)

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



**130B1127** [🔗](#)

**VLT® Resolver Input MCB 103, uncoated**

Enables connection of a resolver to provide speed feedback from the motor. Spring loaded connection.

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**Accessories**


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

MCB 101 - Advanced I / O option

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

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

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

Numerical control unit for FC 100 and FC 300. Allows access to all device parameters.

Quick menu for brief commissioning. Manual / auto switchover and alarm acknowledgment.

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**130B1120** [🔗](#)**VLT® Safe PLC I/O MCB 108, uncoated**

Connection converter for FC 300 with control input for a safe stop. Allows secure connection.

Output modules with diagnostic pulse (Cross-circuit monitoring).

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**130B1119** [🔗](#)**VLT® EtherNet/IP MCA 121, uncoated**

MCA 121 EtherNet / IP interface

- Allows connection to EtherNet / IP based Automation systems via CIP (CommonInterface Protocol)
  - 2 port design reduces external components
  - HTTP for diagnosis via built-in web server
  - SMTP, DHCP and FTP protocols
  - Prepared for parameterization with the MCT 10 software via TCP / IP
  - Certified according to ODVA
- 

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

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

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**130B1115** [🔗](#)**VLT® Encoder Input MCB 102, uncoated**

Offers the possibility to connect various types of incremental and absolute encoders. The connected encoder can be used for closed-loop speed control as well as closed-loop flux motor control.

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

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

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## Accessories



### 130B1113 [🔗](#)

#### lcp panel kit/fc300 fg-lcp panel kit

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



### 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



### 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.

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Accessories



**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



**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.



**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



**130B1103** [🔗](#)

**VLT® CAN Open MCA 105, uncoated**

Standardized handling and interoperability for high flexibility and low costs. Fully equipped with both high-priority access to control and status of the drive (PDO Communication) and access to all parameters through acyclic data (SDO Communication). For interoperability the option has implemented the DSP402 AC-drive profile.

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Accessories



**130B1102** [🔗](#)

**VLT® DeviceNet MCA 104, uncoated**

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



**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

**134B7207**

**cable clamp/d=44-48 k48b**

Image coming soon

**134B7209**

**cable clamp/d=36-40 k40b**

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Accessories



**130B0295** [🔗](#)  
sparepart/terminals accessory bag

Image coming soon

**134B1983** [🔗](#)  
Accessory bag for framesize B4 small  
Accessory bag for framesize B4 small

Image coming soon

**134B1984** [🔗](#)  
Accessory bag for framesize B4 big  
Accessory bag for framesize B4 big

Image coming soon

**130B4847** [🔗](#)  
extension cable for lcp+communication



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



**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

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**Accessories**

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Image  
coming  
soon**134B6883** **VLT Progr. Contr. MCB 301, coated****134B9414** **Antifreeze Thermostat FS20, 0/+15C**

TWO-PHASE FROST PROTECTION THERMOSTATS FS-20-UW

Electronic frost protection thermostat or frost monitor with switching relay output, continuous temperature and valve output (summation output 0–10 V) and control and cascading output (0–10 V), optionally with connection for a heating element. A IP65 resistant plastic housing with display with the actual temperature, measuring range, overrange/underrange of the set switch point (frost protection temperature) and alarm indicator for "frost" or "error" (capillary breakage, overvoltage/undervoltage), quick-locking screws and a fully active sensor rod made of copper. The delivery scope includes a set of MK-05-K mounting clamps for expert attachment of the sensor rod.

Measuring range: 0...+15 °C / 32...+59 °F

Accuracy: typical ± 1 K (at +10 °C)

Sensor type: 3m Copper rod active along the entire sensor length, min. response length of 25 cm

Input: 1 x 0 -10 V control input DDC

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

**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**


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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  $\pm 2.0$  % (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 ( $-35...+80\text{ }^\circ\text{C}$ ) 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 &lt;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**

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±500PA-MB  
Maintenance-free duct sensor covering humidity, temperature and pressure in one transducer. Microprocessor-controlled with Modbus RTU connection in a resistant IP65 plastic housing with quick-locking screws and M16 cable gland for cable connection. Including mounting flange to detect the relative humidity (0...100% RH) and the temperature (-35...+80 °C) inside a tube, with an exchangeable plastic sinter filter. A differential air pressure (max. ± 500 Pa) with connection nozzles for pressure hose (Ø 6 mm). The duct sensor is applied in a non-aggressive and dust-free environment and is suitable for installation in ceilings, ducts and devices. International SI units (default) can be switched to Imperial (via Modbus).

Measuring range: 0...100 % RH (humidity) / - 35...+80°C / -31... +176°F (temperature)

Medium: clean air and non-aggressive, non-combustible gases  
Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F , otherwise ± 3.0 %  
Deviation, temperature: typical ± 0.2 K at +25 °C / ± 0.4 °F at +77 °F  
Pressure range: ± 500 Pa  
Accuracy: 500 Pa/2.0 inWC: typical ± 13 Pa at +25 °C / ± 0.05 inWC at + 77 °F  
Above- # below-pressure: max. ± 50 kPa  
Power: 24VAC (± 20%) / 15...36VDC - 24DC &lt;0,2W  
Operation temperature: -30...+70 °C / -22...+158 °F  
Media temperature -20...+50 °C / -4...+122 °F IP65 plastic housing two M16 cable glands  
Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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**Accessories**


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**134B9407** [🔗](#)**Airflow Sensor KFTF Temp & Humidity**

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

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

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

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

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

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

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

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

Power: 24VAC ( $\pm 20\%$ ) / 15...36VDC - 24DC &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

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**134B9406** [🔗](#)**Pressure Sensor 7227 2x7000Pa, Analog**DUAL AIR PRESSURE SENSOR  $\pm 7000\text{ Pa}$   $\pm 7000\text{ Pa}$ , ANALOGUE

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

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

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

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

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

Power: 24VAC/DC ( $\pm 10\%$ ) &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

**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



**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%) &lt;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%) &lt;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**

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**VLT® DeviceNet converter MCA194 coated**

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