

**131B0088****CONVERSOR FREQUENCIA FC302P2K2T5E20H2BXX**

Conversores de Frequências

FC-302P2K2T5E20H2BXXXXXXXAXBXXXXDX

VLT® AutomationDrive FC-302

(P2K2) 2,2 KW / 3,0 HP, Trifásico

380 - 500 VCA, (E20) IP20 / Chassis

Filtro de RFI

Circuito de frenagem

Sem Pannel de controle local

PCB não revestida, Sem opcional de rede elétrica

Última versão do SW padrão

quadro: A2

Sem opcional C1, Sem opcional D

Sem Opcional A, Sem Opcionais B

Outras opções de acordo com o código do modelo

Código Danfoss: FC-302P2K2T5E20H2BXXXXXXXAXBXXXXDX

O VLT® AutomationDrive apresenta um novo conceito de conversores de frequência, onde um único conversor de frequência controla toda faixa de aplicações, desde a mais simples a aplicações semelhante a servo, em qualquer máquina ou linha de produção.

View Efficiency Data**PRODUCT DETAILS**

Peso bruto		4.49 kg
Peso líquido		3.97 kg
Volume		21.569 l
EAN		5702427105164
VLT® AUTOMATIONDRIVE FC 300 SERIES		
Visão do produto (Alterar)	GLBL	Global (Padrão)
Grupo de produtos	FC-	VLT® AutomationDrive FC-
Série	302	302
Potência Nominal	P2K2	(P2K2) 2,2 KW / 3,0 HP
Fase	T	Trifásico
Tensão de rede	5	380 - 500 VCA
Gabinete	E20	(E20) IP20 / Chassis
Filtro de RFI	H2	Filtro de RFI
Freio - Safe Stop	B	Circuito de frenagem
LCP	X	Sem Pannel de controle local
Revestimento de PCB	X	PCB não revestida
Opcional de rede elétrica	X	Sem opcional de rede elétrica
Adaptação A	X	Entradas de cabo padrão
Adaptação B	X	Sem adaptação
Versão do software	SXXX	Última versão do SW padrão
Pacote de idioma padrão	X	Pacote de Idioma Padrão
Opcional A	AX	Sem Opcional A
Opcional B	BX	Sem Opcionais B
Opcional C0 do MCO	CX	Sem opcional C0

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Product Detail | CONVERSOR FREQUENCIA FC302P2K2T5E20H2BXX

PRODUCT DETAILS

Opcional C1	X	Sem opcional C1
Software do opcional C	XX	Sem opção de software
Opcional D	DX	Sem opcional D
Tamanho do Chassi	A2	A2
Codificação Parte 1		FC-302P2K2T5E20H2BXX
Codificação Parte 2		XXXSXXXAXBXCXXXDX
Product Catalog	NO_VIEW	NO VIEW
Potência 160% (HO) [KW]		2.2
Altura [mm]		268,0
Largura s/ opcionais C [mm]		90,0
Largura c/ 2 opcionais C [mm]		150,0
Profundidade [mm]		205,0
Profund. c/ opcional A/B [mm]		220,0
kVA		3.88
Perdas HO [W]		88
Perdas HO [W]		88
Corrente constante (HO) [A]		5.6
Corrente intermitente (HO) [A]		8.96
Corrente constante (HO) [A]		4.8
Corrente intermitente (HO) [A]		7.68
Peso Bruto Calculado [kg]		4.49
Peso líquido calculado [kg]		3.97
ECCN EU		Y901
ECCN US		3A999.a
Fornecedor	ERR01	Não é possível determ fornec
Fábrica recomendada	ERR01	Não é possível determ fornec
Código do modelo 01		FC-302P2K2T5E20H2BXX
Código do modelo 02		XXXSXXXAXBXCXXXDX
Recommended Plant		ERR01

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

Acessórios

Image
coming
soon

130B3290 [↗](#)

MCB 151 OPCIONAL DE SEGURANCA - HTL

VL^T® 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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Acessórios

**130B3280** **MCB 150 OPCIONAL DE SEGURANCA**

Os módulos de segurança permitem que as máquinas interajam de maneira inteligente com operadores para aumentar a segurança, reduzir custos do sistema, melhorar a flexibilidade e aumentar a produtividade.

Os opcionais VLT® MCB 15x Safe fornecem uma solução inteligente e fácil de usar para estar em conformidade com a norma de segurança funcional IEC 61800-5-2 e ajudam a reduzir o cabeamento. O novo módulo de segurança é certificado de acordo com a ISO 13849-1 PL d Categoria 3 e SIL 2, de acordo com a IEC 61508.

**130B7530** **KIT DE MONTAGEM MCO A2/A3**

MCF 105 assembly kit A2 / A3 for C option

**130B7145** **PLACA ELETRONICA P/ CONVERSOR FREQUENCIA****130B9860** **MODULO MCB152 P/ CONVERSOR DE FREQUENCIA**

Opcionais de segurança permitem que as máquinas interajam de maneira inteligente com operadores para aumentar a segurança, reduzir custos de sistema, melhorar a flexibilidade e aumentar a produtividade.

O VLT® Safety Option MCB 152 fornece uma solução inteligente e fácil de usar para estar em conformidade com a norma de segurança funcional IEC 61800-5-2 e ajuda a reduzir o cabeamento. O MCB 152 permite a ativação do Safe Torque Off (STO) independentemente de onde ocorre um risco.

O novo opcional de segurança é certificado de acordo com a ISO 13849-1 PL d Categoria 3 e SIL 2, de acordo com a EN IEC 61508.

A combinação do VLT® Safety Option MCB 152, opcional VLT® PROFINET MCA 120 fieldbus e o cartão de controle do VLT® AutomationDrive constitui um dispositivo PROFIsafe.

**130B5646** **VLT® OPCIONAL ETHERCAT MCA 124, COATED**

MCA 124 Ethercat option painted The VLT® EtherCat

MCA 124 option enables Connection to EtherCat-based networks via the EtherCat protocol.

The option allows an EtherCat connection with full Speed and a connection to the frequency converter with a time interval of 4 ms in both Directions. This enables the MCA124 to be used in Networks from low-power applications to Servo applications.

-EoE EtherNet over EtherCat support

-HTTP (Hypertext Transfer Protocol) for diagnosis via integrated web server

-SMTP (Single Mail Transfer Protocol) for email notification

-TCP / IP for easy access to frequency converters Configuration data via MCT 10

For more information, please use this link to visit the product page on Danfoss Product Store 

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Acessórios

**130B1235** **MOD. COMUM. MCA120 PROFINET SRT coated**

MCA 120 PROFINET interface

With reinforced coating (class 3C3 / IEC 60721-3-3)

- Supports operation on PROFINET network with extensive characteristics
- 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

**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

**130B1245** **PROFIBUS CONV. VLT 3000**

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

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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

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Acessórios

**130B1227** **RESOLVER MCB 103**

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

**130B1219** **VLT® EtherNet IP MCA 121, coated**

A EtherNet/IP amplia a EtherNet comercial pronta para o Protocolo Industrial Comum (CIP™) – o mesmo protocolo de camadas superiores e modelo de objeto encontrado no DeviceNet. Interruptor integrado de alto desempenho que permite topologia de linha e elimina a necessidade de interruptores externos. Topologia Device Level Ring (DLR) para maior disponibilidade do sistema. Baseada em CIP™, possibilita a reutilização do programa PLC ao migrar do DeviceNet para o EtherNet/IP. Servidor web integrado fornece diagnóstico remoto e leitura dos parâmetros básicos do drive. A notificação por e-mail oferece acesso rápido a informações de advertências ou alarmes. Comunicação unicast e multicast para melhor utilização da rede. Certificado por ODVA para o cumprimento dos mais novos padrões.

**130B1264** **CARTÃO DE EXPANSÃO DE RELÊ - MCB113 CTD**

Adiciona 7 entradas digitais e 2 saídas analógicas para maior flexibilidade. 4 relés SPDT. Atende às recomendações NAMUR. Capacidade de isolamento galvânica.

**130B1252** **Placa de Sincronismo MCO 350 Envernizada**

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

**130B1246** **Conversor para Profibus**

Uma versão especial dos opcionais PROFIBUS que emula comandos VLT® 5000 no VLT® AutomationDrive. O VLT® 5000 pode ser substituído pelo VLT® AutomationDrive, ou um sistema existente pode ser expandido sem modificações dispendiosas do programa PLC. Para a atualização a um fieldbus diferente, o conversor instalado pode ser facilmente removido e substituído por uma nova opção. Isso garante o investimento sem perda de flexibilidade. O opcional suporta o DPV1.

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Acessórios

**130B1196** **MÓDULO DE COMUNICAÇÃO MCA122-MODBUS TCP**

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

**130B1172** **SENSOR PT 100/PT 1000 PARA FC 200/300**

Protege o motor contra superaquecimento, monitorando a temperatura dos rolamentos e enrolamentos do motor. Três entradas de sensor de detecção automática para sensores PT100/PT1000 de 2 ou 3 fios. Uma entrada analógica adicional de 4-20 mA.

**130B1212** **KIT MCB101 I/O REVESTIDO**

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

**130B1210** **CARTÃO DE RELÊS EXTRAS MCB105 COM VERNIZ**

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

**130B1208** **CARTAO 24V MCB 107, COATED**

Conecte a alimentação CC externa para manter a seção de controle e qualquer opcional instalado ligados durante faltas de energia. Permite a operação completa do LCP (incluindo a programação do parâmetro) e todos os opcionais instalados sem ligação à rede elétrica.

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Acessórios

**130B1203** **VLT® Encoder Input MCB 102, revestido**

Oferece a possibilidade de conectar vários tipos de encoders absolutos e incrementais. O encoder conectado pode ser utilizado para controle da velocidade de malha fechada e também para controle do motor de fluxo em malha fechada.

**130B1202** **MCA104-OPCIONAL DEVICENET FC300 COATED**

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

**130B1200** **VLT® PROFIBUS DP V1 MCA 101 ENVERNIZADO**

Fornecer ampla compatibilidade, alto nível de disponibilidade, suporte a todos os principais fornecedores de PLC e compatibilidade com versões futuras. Comunicação rápida e eficiente, instalação transparente, diagnóstico e parametrização avançados e autoconfiguração eficiente de dados de processo com a utilização do arquivo GSD. Parametrização acíclica usando o PROFIBUS DP-V1, PROFIdrive ou as máquinas de estado de perfil do FC da Danfoss, PROFIBUS DP-V1, Classe Mestre 1 e 2.

**130B1272** **MCB 114 SENSOR INPUT 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

**130B1296** **VLT® MODBUS TCP MCA 122 ENVERNIZADO**

O primeiro protocolo industrial para automação baseado em Ethernet Conecta-se com redes baseadas em Modbus TCP. Capaz de lidar com intervalos de conexão de 5 ms ou mais em ambas as direções, o que o coloca entre os dispositivos Modbus TCP com o mais rápido desempenho no mercado. Para redundância mestre, ele apresenta troca quente entre dois mestres.

**130B1164** **MCB 113 Extended Relay Card**

Adiciona 7 entradas digitais e 2 saídas analógicas para maior flexibilidade. 4 relés SPDT. Atende às recomendações NAMUR. Capacidade de isolamento galvânica.

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Acessórios

**130B0185** **SUPORTE ADAPTADOR VLT5000 - A2, A3**

Com a placa do adaptador, você pode substituir um VLT® 5/6/8000 por um drive FC sem precisar fazer novos furos para o drive FC. Isso facilita e agiliza a substituição de um VLT® 5/6/8000 e, como não haverá perfuração, não haverá limalhas que danifiquem os componentes elétricos.

O seguinte VLT® 5/6/8000 pode ser montado na placa do adaptador 130B0185:

IP20 Compacto: 200-240Volt VLT5001-5006, 380/500Volt VLT5001-5011

IP20/NM1: 200-240Volt VLT6002-6005, 380/460Volt VLT6002-6011, 380-480Volt VLT8006-8011, 550-600Volt VLT 5001-5011, 525-690Volt VLT8002-8011

**130B0184** **ADAPTADOR DE PLACA, 395X130MM**

Com a placa do adaptador, você pode substituir um VLT® 5/6/8000 por um drive FC sem precisar fazer novos furos para o drive FC. Isso facilita e agiliza a substituição de um VLT® 5/6/8000 e, como não haverá perfuração, não haverá limalhas que danifiquem os componentes elétricos.

O seguinte VLT® 5/6/8000 pode ser montado na placa do adaptador 130B0184:

IP20 Livro: 200-240Volt VLT5004-5006/VLT6004-6005, 380/500Volt VLT5006-5011, 380-460Volt VLT6006-6011

**130B0183** **SUPORTE ADAPTADOR VLT5000 - A1, A2**

Com a placa do adaptador, você pode substituir um VLT® 5/6/8000 por um drive FC sem precisar fazer novos furos para o drive FC. Isso facilita e agiliza a substituição do VLT® 5/6/8000 e, como não haverá perfuração, não haverá limalhas que danifiquemos componentes elétricos.x000D_

O seguinte VLT® 5/6/8000 pode ser montado na placa do adaptador 130B0183:

IP20 Livro: 200-240Volt VLT5001-5003/VLT6002-6003, 380/500Volt VLT5001-5005, 380-460Volt VLT6002-6005

**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

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Acessórios

**130B1134****OPCIONAL MCO 305**

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

**130B1132****KIT IP21/NEMA 1 ENCLOSURE TOP COVER A2**

Esta é apenas a parte superior do kit. Se você precisar de um kit com parte superior e inferior, solicite 130B1122

**130B1127****MCB103 RESOLVER OPCIONAL FC-30X-B**

Permite a conexão de um resolver para fornecer feedback de velocidade do motor. Conexão acionada por mola

**130B1125****OPCIONAL DE I/O ADICIONAIS - FC300**

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****LCP NUMERICO - FC 302**

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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**130B1122** **IP 21/Type 12 (NEMA1) Kit, A2 Frame**

Cover for housing size A2 MCF 101 NEMA1 / IP21

**130B1120** **INTERFACE DE SEGURANÇA - APENAS FC 302**

Connection converter for FC 300 with control input for a safe stop. Allows secure connection. Output modules with diagnostic pulse (Cross-circuit monitoring).

**130B1119** **OPCIONAL ETHERNET SEM VERNIZ**

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** **KIT REMOTO FC300**

O kit inclui fixadores, cabo de 3 m e vedação - O LCP não está incluído.

**130B1115** **MCB 102 ENCODER**

Oferece a possibilidade de conectar vários tipos de encoders absolutos e incrementais. O encoder conectado pode ser utilizado para controle da velocidade de malha fechada e também para controle do motor de fluxo em malha fechada.

**130B1113** **KIT REMOTO C/DISP.GRAF.FC300**

O kit inclui LCP gráfico, fixadores, cabo de 3 m e vedação.

**130B1110** **MCB 105 RELAY OPTION**

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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Acessórios

**130B1153** **CONTROLADOR DE POSICIONAMENTO MCO351**

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** **PLACA ELETRONICA P/ CONVERSOR FREQUENCIA**

Expande as propriedades funcionais do VLT® AutomationDrive na sincronização de aplicações e substitui as soluções mecânicas tradicionais. Sincronização de velocidade. Sincronização da posição (ângulo) com ou sem a correção do marcador. Relação de engrenagem ajustável on-line. Deslocamento de posição (ângulo) ajustável on-line. Saída do encoder com função mestre virtual para sincronização de vários seguidores. Controle via E/S ou fieldbus. Função Início. Configuração e leitura de status e dados por meio do painel de controle local do drive.

**130B1137** **MCB 112 ATEX Thermistor Cartão Revestido**

ATEX: II (2) G [Ex eb Gb] [Ex db Gb] / II (2) D [Ex tb Db]

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** **Peças mecânicas para LCD-Blindcover IP66**

LCP Blindcover IP66

For more information, please use this link to visit the product page on Danfoss Product Store 

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Acessórios

**130B1108****MODULO 24VCC**

Conecte a alimentação CC externa para manter a seção de controle e qualquer opcional instalado ligados durante faltas de energia. Permite a operação completa do LCP (incluindo a programação do parâmetro) e todos os opcionais instalados sem ligação à rede elétrica.

**130B1107****DISPLAY GRÁFICO P/ VLT FC**

VLT Control Panel LCP 102

Display de gráfico iluminado com texto simples.

Compatível com todos os idiomas e caracteres de texto.

Quick menu para rápida colocação em funcionamento.

Função salvar e copiar dos conjuntos de parâmetros.

Ajuda on-line para todas as funções.

**130B1103****CARTÃO CANOPEN - MCA 105**

Manipulação padronizada e interoperabilidade para alta flexibilidade e baixos custos. Totalmente equipado com acesso de alta prioridade para controle e status do drive (Comunicação PDO) e acesso a todos os parâmetros por meio de dados acíclicos (Comunicação SDO). Para interoperabilidade, o opcional implementou o perfil do conversor de frequência DSP402.

**130B1102****CARTÃO DEVICENET P/ FC 302**

Oferece um gerenciamento de dados robusto e eficiente graças à tecnologia produtor/consumidor avançada. As fortes políticas de testes de conformidade da ODVA garantem que os produtos sejam interoperáveis, e o perfil do conversor de frequência, suportado usando a instância de E/S 20/70.21/71, garante a compatibilidade com os sistemas existentes.

**130B1100****PLACA DE PROFIBUS FC 302**

Fornece ampla compatibilidade, alto nível de disponibilidade, suporte a todos os principais fornecedores de PLC e compatibilidade com versões futuras. Comunicação rápida e eficiente, instalação transparente, diagnóstico e parametrização avançados e autoconfiguração eficiente de dados de processo com a utilização do arquivo GSD. Parametrização acíclica usando o PROFIBUS DP-V1, PROFIdrive ou as máquinas de estado de perfil do FC da Danfoss, PROFIBUS DP-V1, Classe Mestre 1 e 2.

**130B1088****TAMPA CEGA COM LOGO PARA IP20/21****130B1490****PLACA ELETRONICA P/ CONVERSOR FREQUENCIA**

Representa a segunda geração do fieldbus. A alta taxa de bit de Ethernet industrial agora pode ser usada para disponibilizar mundialmente toda a capacidade das tecnologias de TI usadas na automação para o mundo da fábrica.

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Acessórios

**175U0087** [🔗](#)**KIT MONTAGEM 2 RESISTORES FRAME A2**

Back frame A2 for 2 brake resistors

**175U0085** [🔗](#)**QUADRO DE MONTAGEM: PEGADA, A2**

Back frame A2 for 1 brake resistor

**175Z0929** [🔗](#)**CABO PARA LCP, 3 M**

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** [🔗](#)**SUPORTES FIXACAO P/ CONVERSOR FREQUENCIA**

Mounting angle for flatpack resistor 200W

**175N2584** [🔗](#)**MCA 121 EtherNet/IP coated gateway**Image
coming
soon**134B5224** [🔗](#)**REMOTO LCP CABO 5M**

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

**134B5223** [🔗](#)**KIT DE MONTAGEM LCP102 W. CABO 3M**

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

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Acessórios

**134B0460** **PAINEL CONTROLE P/ CONVERSOR FREQUENCIA**

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

**130B1266** **PLACA ELETRONICA P/ CONVERSOR FREQUENCIA**

VLT® MCB 115 programmable I / O, coated

**134B6544** **PLACA ELETRONICA P/ CONVERSOR FREQUENCIA**

O opcional será compatível e funcionará apenas com os cartões de controle MKII e em drives de até 90 kW.

**130B0295** **EMBALAGEM COM ACESSORIOS CONTENDO PLUGS****130B1022** **ACESSORIOS PARA FRAMES A2, A3****134B8493** **TRANSDUTOR PARA CONVERSOR FREQUENCIA**

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

**134B8496** **CABO PARA CONVERSOR FREQUENCIA**

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Acessórios

**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 cascading input

Output: 1 x 0 -10 V output temperature (corresponding to 0...+15 °C) & 1 x 0 -10 V output valve (frost signal with control voltage and cascading)

1 x potential-free changeover contact (24 V), range of adjustment 0...+15 °C

Current consumption: max. 100 mA at 24 V DC

Load resistance: $R_L > 50$ 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 ($\pm 10\%$) 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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Acessórios

**134B9413** **Airflow Sensor KLQ CO2 & Air Quality**

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

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

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

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

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

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

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical ± 30 ppm (± 3 % of measured value) & 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 $<1,6\text{W}$

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

T2-IP65 plastic housing two M20 cable glands

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

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Acessórios

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

DUCT TEMPERATURE SENSOR TF 65

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

Sensor type: PT1000 class B (DIN EN 60751) 1000ohm at $0^{\circ}\text{C} \pm 0,3\text{ K}$ Measuring range: $-30...+150^{\circ}\text{C}$ / $-22...+302^{\circ}\text{F}$ Ambient temperature: $-20...+100^{\circ}\text{C}$ / $-4...+212^{\circ}\text{F}$ Testing current: $< 0.6\text{ mA}$ Insulating resistance: 100 M#, at $+20^{\circ}\text{C}$ (500V DC)

Connection type: 2-wire connection

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

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

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

**134B9411** **Wall Sensor AFTF Temp & Humidity**

ON-WALL- HUMIDITY- AND TEMPERATURE SENSORS AFTF-MB

Calibratable outside humidity and temperature sensor AFTF, detect the relative humidity (0...100% RH) and the temperature ($-35...+80^{\circ}\text{C}$), including various parameters in the humidity measurement. Applied in clean air and non-aggressive, dust-free environment. With a Modbus connection in a resistant IP65 plastic housing and M20 cable gland for cable connection, with quick-locking screws and an exchangeable plastic sinter filter. International SI units (default) can be changed to imperial (via Modbus).

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

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

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

T3-IP65 plastic housing with two M20 cable glands

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

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Acessórios

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

OUTSIDE / WET ROOM TEMPERATURE SENSOR ATM2-MB

Calibratable outside temperature sensor ATM2, PT1000 measure temperature (-50...+150 °C), with Modbus RTU connection, in a resistant IP65 plastic housing with quick-locking screws and M20 cable gland for cable connection. International SI units (default) can be changed to imperial (via Modbus).

Sensor type: PT1000 class B (DIN EN 60751)

Measuring range: - 50...+150°C / -31... +176°F

Deviation: typical ± 0.2 K at +25 °C / ± 77 °F

Zero point offset: ± 10 °C / ± 50 °F

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

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

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

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

T3-IP65 plastic housing with two M20 cable glands

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

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

DUCT HUMIDITY-, TEMPERATURE- AND PRESSURE SENSORS ±7000PA-MB

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

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

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

Deviation, humidity: typical ± 2.0 % (20...80 % RH) at +25°C/+77°F , otherwise ± 3.0 %

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

Pressure range: ± 7000 Pa

Accuracy: 7000 Pa/28 inWC: typical ± 105 Pa at +25 °C / ± 0.12 inWC at +77 °F

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

Power: 24VAC (± 20%) / 15...36VDC - 24DC <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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Acessórios

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 $<0,2$ W
Operation temperature: $-30...+70$ °C / $-22...+158$ °F
Media temperature $-20...+50$ °C / $-4...+122$ °F IP65 plastic housing two M16 cable glands
Housing dimensions: 126 x 90 x 50 mm / 4.96 x 3.54 x 1.97 in

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Acessórios

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

DUCT HUMIDITY- AND TEMPERATURE SENSORS KFTF-MB

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

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

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

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

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

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

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

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

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

T3-IP65 plastic housing with two M20 cable glands

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

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

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

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

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

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

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

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

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

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

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

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

T2-IP65 plastic housing with one M16 cable gland

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

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Acessórios

**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 ($\varnothing 6\text{ mm}$) 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: $\pm 500\text{ Pa} - 0...100\text{Pa} / 200\text{Pa} / 300\text{Pa} / 500\text{Pa}$ 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 ($\pm 10\%$) $< 1,3\text{W}$,

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

Working resistance: $R_a\text{ (ohms)} = 25...450\text{ Ohm}$ (at I output)Load resistance: $R_L > 15\text{ kOhm}$ (at U output)Operation / Media temperature: $-20...+50\text{ }^\circ\text{C} / -4...+122\text{ }^\circ\text{F}$

T2-IP65 plastic housing with one M16 cable gland

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

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

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

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

For more information, please use this link to visit the product page on Danfoss Product Store

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Acessórios

**134B9401****Pressure Sensor 7249T 500/7000Pa & PT1000**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ & $\pm 7000\text{Pa-MB}$

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

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

T2-IP65 plastic housing with two M16 cable glands & one M12 for temperature

Housing dimensions: $126 \times 90 \times 50\text{ mm}$ / $4.96 \times 3.54 \times 1.97\text{ in}$ **134B9400****Pressure Sensor 7245T 2x500Pa & PT1000**DUAL AIR PRESSURE SENSOR $\pm 500\text{Pa}$ & $\pm 500\text{Pa-MB}$

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

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

T2-IP65 plastic housing with two M16 cable glands & one M12 for temperature

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

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Acessórios

**130B5601** [🔗](#)**MODULO CONVERSOR DEVICENET MC194**

VLT® DeviceNet converter MCA194 coated

Peças de Reposição

**130B7530** [🔗](#)**KIT DE MONTAGEM MCO A2/A3**

MCF 105 assembly kit A2 / A3 for C option



x10

130B9001 [🔗](#)**CONECTOR P/ CONVERSOR DE FREQUENCIA****130B5601** [🔗](#)**MODULO CONVERSOR DEVICENET MC194**

VLT® DeviceNet converter MCA194 coated

**130B1012** [🔗](#)**Terminal cover frame A1-A3 with option****130B1011** [🔗](#)**TAMPA DE TERMINAL FRAME A1-A3****130B1008** [🔗](#)**Frame for LCP Control Pad with option****130B1007** [🔗](#)**MOLDURA PARA CONVERSOR DE FREQUENCIA****130B1022** [🔗](#)**ACESSORIOS PARA FRAMES A2, A3****For more information, please use this link to visit the product page on Danfoss Product Store** [🔗](#)

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Peças de Reposição

**130B0295** **EMBALAGEM COM ACESSORIOS CONTENDO PLUGS****130B1069** **MULTIPLoS PLUGUES DO RELE 1**

spare, 3 pole connector, relay 1, fc300

**130B1068** **MULTIPLoS PLUGUES DO RELE 2**

spare, 3 pole connector, relay 2, fc300

**130B1067** **CONECTORES MULTIPLoS PARA LINHA DE CONEX****130B1096** **VENTILADOR PARA A2 COATED****130B1088** **TAMPA CEGA COM LOGO PARA IP20/21****134B1726** **CARTÃO DE CONTROLE C/ SAFE STOP FC-302**

Compatível com a versão de software 8.12 ou superior. Se seu drive tem um software específico do cliente ou uma versão de software de marca, solicite o cartão de controle com número de peça 130B1109

For more information, please use this link to visit the product page on Danfoss Product Store 

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Peças de Reposição

**134B9413** **Airflow Sensor KLQ CO2 & Air Quality**

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

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

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

VOC measuring range: 0...100 % air quality; referred to calibrating gas & selection of VOC sensitivities (low/medium/high)

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

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

CO2 measuring range: 0...5000 ppm

CO2 measuring accuracy: typical ± 30 ppm (± 3 % of measured value) & 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 $<1,6\text{W}$

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

T2-IP65 plastic housing two M20 cable glands

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

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Serviços

**131B0050** **CONVERSOR FREQUENCIA FC302P4K0T5E20H1BGX**

Conversores de Frequências
FC-302P4K0T5E20H1BGXXXXXXXAXBXXXXDX
VLT® AutomationDrive FC-302
(P4K0) 4,0 KW / 5,0 HP, Trifásico
380 - 500 VCA, (E20) IP20 / Chassis
(H1) RFI Classe A1/B (C1)
Circuito de frenagem
Painel de contr local gráfico
PCB não revestida, Sem opcional de rede elétrica
Última versão do SW padrão
quadro: A2
Sem opcional C1, Sem opcional D
Sem Opcional A, Sem Opcionais B
Outras opções de acordo com o código do modelo

Código Danfoss: FC-302P4K0T5E20H1BGXXXXXXXAXBXXXXDX

O VLT® AutomationDrive apresenta um novo conceito de conversores de frequência, onde um único conversor de frequência controla toda faixa de aplicações, desde a mais simples a aplicações semelhante a servo, em qualquer máquina ou linha de produção.

**130R1121** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1120** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1122** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.
You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

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Serviços

**130R1123** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1126** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1125** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1124** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1127** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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**130R1128** **Serv de manut. e conserto-laboratorio**

DrivePro® Standard Extended Warranty provides repair at a Danfoss Drives workshop, or shipment of a replacement product to the site.

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Serviços

**130R1024** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1025** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1020** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1022** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1021** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.

**130R1027** **Serviços de manutenção e conserto-campo**

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

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Serviços



130R1026

Serviços de manutenção e conserto-campo

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.



130R1028

Serviços de manutenção e conserto-campo

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.



130R1023

Serviços de manutenção e conserto-campo

DrivePro® On-site Extended Warranty provides repair at the customer site, or replacement at the customer site.

You can only order DrivePro® Extended Warranty when purchased with a new drive. For drives previously shipped or purchased; contact your local Danfoss Drives sales office for extended warranty contract options.



130R1304

DrivePro Start-Up unit on-demand small

DrivePro® Start-up gives the Customer a full range of checks and adjustments during commissioning of the drive, ensuring their system is tuned for optimal performance right from day one.

The following benefits can be gained:

- Installation is checked to ensure it complies to Danfoss guide lines.
- The AC drive is fine-tuned specific to the application, ensuring optimal performance.
- Maximum energy savings to the Customer.
- Extend the AC drive's lifespan.
- Report detailing findings.

Before DrivePro® Start-up can be implemented, the AC drive must be installed and

ready for operation. The entire system must be fully operational under normal operation conditions. Installation of the drive is not included in this package. Commissioning needs to take place during the standard working hours.

General Terms and Conditions of Delivery and Warranty apply.

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Serviços

Image
coming
soon

130R1199

DrivePro Site Assessment

investments.

DrivePro® Site Assessment is designed by Danfoss Drives to assess and analyze the drives at your site for effective asset management with a view of their maintenance and their lifecycle conditions. This assessment helps you to maintain, plan and take investments to achieve the highest possible reliability and performance.

Our experts visit your site and collect the data on your drives. We evaluate the collected data and help you to have an overview of risk factors in combination of all the parameters visually inspected at site. We give you a report on key facts which would help your management to take decisions on maintenance, planning, renewals and on future investments.

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