

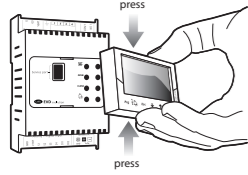
EVD*, EVDIS* - EVD evolution - Electronic expansion valve driver and graphic display



LEGGI E CONSERVA QUESTE ISTRUZIONI
READ AND SAVE THESE INSTRUCTIONS

NO POWER & SIGNAL CABLES TOGETHER
READ CAREFULLY IN THE TEXT

Display board mounting



Refrigerant compatibility

R22; R134a; R404A; R407C; R410A; R507A; R290; R600; R600a; R717; R744; R728; R1270; R417A; R422D; R413A; R422A; R423A; R407A; R427A; R245Fa; R407F; R32; HTR01; HTR02; R23; R1234yf; R1234ze; R455A; R170; R442A; R447A; R448A; R449A; R450A; R452A; R508B; R452B; R513A; R454B; R458A

Table of product codes

code	EVD evolution description	code	display (accessory) description
EVD0000E00	EVD Evolution universal (tLAN)	EVDIS00CNO	Display (Chinese)
EVD0000E01	EVD Evolution universal (tLAN), 10 p2* (pcs)	EVDIS00CZO	Display (Czech)
EVD0000E10	EVD Evolution universal (pLAN)	EVDIS00DE0	Display (German)
EVD0000E11	EVD Evolution universal (pLAN), 10 p2* (pcs)	EVDIS00ENO	Display (English)
EVD0000E20	EVD Evolution universal (RS485/Modbus*)	EVDIS00E50	Display (Spanish)
EVD0000E21	EVD Evolution universal (RS485/Modbus*), 10 p2* (pcs)	EVDIS00FRO	Display (French)
EVD0000E22	EVD Evolution universal (RS485/Modbus*), 10 p2* (pcs)	EVDIS00ITO	Display (Italian)
EVD0000E30	EVD Evolution for CAREL valves (tLAN)	EVDIS00JPO	Display (Japanese)
EVD0000E31	EVD Evolution for CAREL valves (tLAN), 10 p2* (pcs)	EVDIS00PLO	Display (Polish)
EVD0000E40	EVD Evolution for CAREL valves (pLAN)	EVDIS00PT0	Display (Portuguese)
EVD0000E41	EVD Evolution for CAREL valves (pLAN), 10 p2* (pcs)	EVDIS00RU0	Display (Russian)
EVD0000E50	EVD Evolution for CAREL valves (RS485/Modbus*)	EVDIS00SE0	Display (Swedish)
EVD0000E51	EVD Evolution for CAREL valves (RS485/Modbus*), 10 p2* (pcs)		
EVD0002E10	EVD Evolution universal optoisolated (pLAN)		
EVD0002E20	EVD Evolution universal optoisolated (RS485/Modbus*)		

(*) The multiple packages are not supplied with connectors

Table of valve compatibility

Model	Valve
CAREL	E*V****
ALCO	EX4; EX5; EX6; EX7; EX8 330 Hz (supported by CAREL); EX8 500 Hz (from ALCO specifications)
SPORLAN	SEI 0.5-1.1; SER 1.5-20; SEI 30; SEI 50; SEH 100; SEH175
Danfoss	ETS 1.2-5-25B; ETS 50B; ETS 100B; ETS 250; ETS 400; CCM 10-20-30; CCM 40
CAREL	Two CAREL EVX connected together
SPORLAN	SER(J), G, J, K

(ENG) For further information, see the "EEV system guide" (code +030220810) and the user manual (code +0300005EN) available at www.carel.com, under the "Literature" section.

Table of EVD LEDs

LED	on	off	flashing
net	connection made	no connection	communication error
open	valve opening	-	first configuration
close	valve closing	-	first configuration
alarm	alarm active	-	-
power	driver powered	driver not powered	wrong power supply

Note: if open and close LEDs blink at the same time, the commissioning procedure has to be executed.

Display keypad

key function
Prg goes directly to the screen for entering the password to access programming mode
Esc exits programming mode (service, manufacturer) and display;
 • after setting a parameter, exits without saving the change.
↑ in alarm mode displays the alarm queue;
↓ in the "manufacturer" level, when scrolling the parameters, shows the help screens.

IMPORTANT WARNINGS

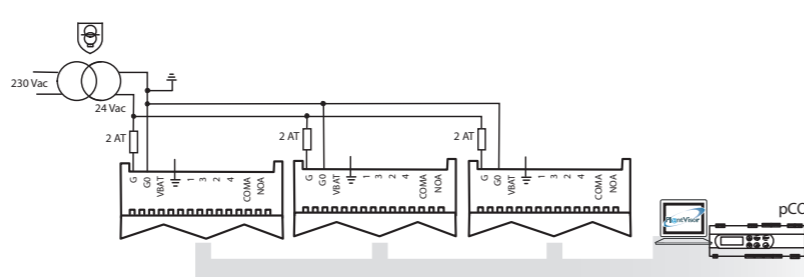
The CAREL product is a state-of-the-art device, whose operation is specified in the technical documentation supplied with the product or can be downloaded, even prior to purchase, from the website www.carel.com. The customer (manufacturer, developer or installer of the final equipment) accepts all liability and risk relating to the configuration of the product in order to reach the expected results in relation to the specific installation and/or equipment. The failure to complete such phase, which is required/indicated in the user manual, may cause the final product to malfunction; CAREL accepts no liability in such cases. The customer must use the product only in the manner described in the documentation relating to the product. The liability of CAREL in relation to its products is specified in the CAREL general contract conditions, available on the website www.carel.com and/or by specific agreements with customers.

Separate as much as possible the probe and digital input signal cables from the cables carrying inductive loads and power cables to avoid possible electromagnetic disturbance. Never run power cables (including the electrical panel wiring) and signal cables in the same conduits.

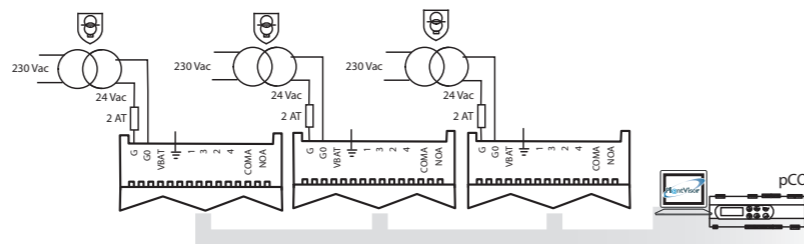
Disposal of the product
The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force

tLAN, pLAN and RS485 connections and power supply

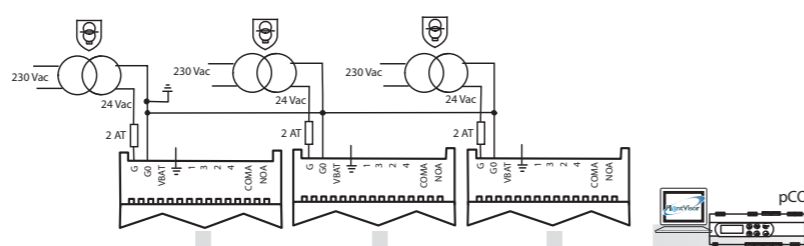
Case 1: a series of drivers is connected in a network, installed in the same electrical panel, powered by the same transformer



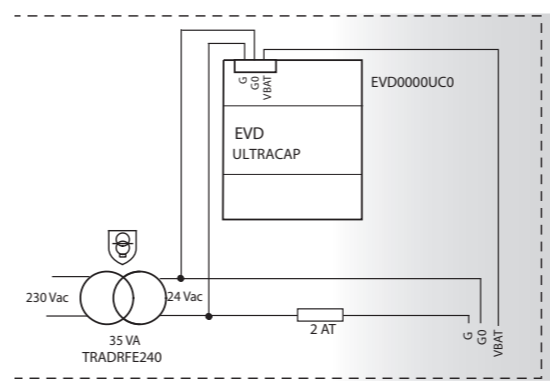
Case 2: a series of drivers is connected in a network, installed in electrical different panels, powered by different transformers (G0 not connected to earth).



Case 3: a series of drivers is connected in a network, installed in electrical different panels, powered by different transformers with just one earth point.



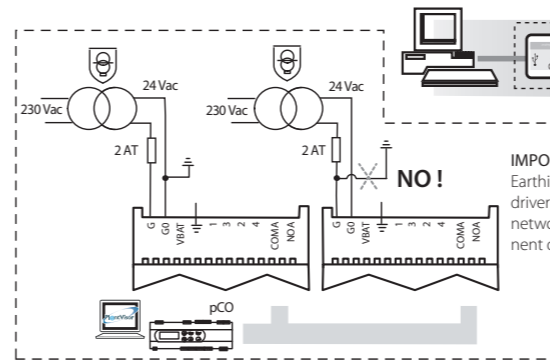
CASE 1:
230 Vac power supply with emergency module



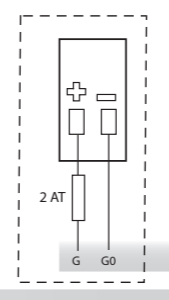
CASE 2:
230 Vac power supply without emergency module



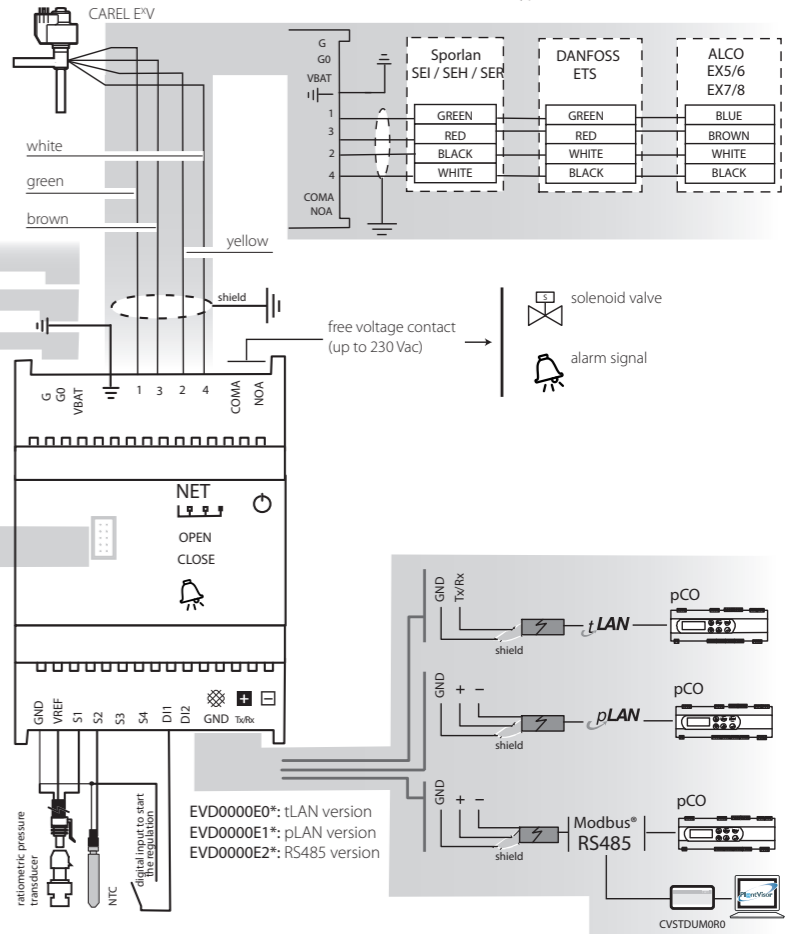
(*) For ALCO EX7 or EX8 use a 35 VA TRADDFE240 transformer



CASE 3:
24 Vdc power supply



Wiring diagram for superheat control



NOTE 1: use a class 2 safety transformer, suitably protected against short-circuits and voltage surges

Einstellung der Basisparameter

- Es erscheint der erste Parameter: Netzwerk-Adresse.
- Enter drücken, um zum Parameterwert überzugehen.
- UP/DOWN drücken, um den Wert zu ändern.
- Mit Enter den Wert bestätigen.
- UP/DOWN drücken, um zum nächsten Parameter zu springen, Kältemittel.
- Die Schritte 2, 3, 4, 5 zur Änderung der Parameterwerte wiederholen: Kältemittel, Ventil, Druckfühler S1, Hauptregelung.
- Die Elektroanschlüsse auf ihre Korrektheit überprüfen.
- Ist die Konfiguration korrekt, das Verfahren verlassen, ansonsten NEIN wählen und zum Schritt 2 zurückkehren.

Configuração dos parâmetros base

- aparece o primeiro parâmetro: endereço de rede;
- apertar Enter para passar ao valor do parâmetro
- apertar UP/DOWN para modificar o valor
- apertar Enter para confirmar o valor
- apertar UP/DOWN para passar ao parâmetro seguinte, refrigerante
- repetir os passos 2, 3, 4, 5 para modificar os valores dos parâmetros: refrigerante, válvula, sonda pressão S1, regulagem principal;
- verificar se as conexões elétricas estão corretas;
- se a configuração está correta sair do procedimento, ou então escolher NÃO e retornar ao passo 2;

設定基本参数

- 显示第一个参数：网络地址；
- 按下Enter键显示参数值
- 按下UP/DOWN键，改变参数值
- 按下Enter键确认值
- 重复步骤2, 3, 4, 5，改变参数的值：制冷剂，阀，压力传感器S1，控制的主要类型；
- 检查电气连接是否正确；
- 如果设置正确，退出程序，否则选择NO并返回到步骤2；

Установка основных параметров

- первый показываемый параметр: сетевой адрес;
- нажмите Enter для индикации значения параметра
- нажмите UP/DOWN для изменения значения
- нажмите Enter для подтверждения значения
- нажмите UP/DOWN для перехода к следующему параметру, хладагент, клапан, датчик давления S1, главный тип управления;
- повторите шаги 2, 3, 4, 5 для изменения значений параметров: хладагент, клапан, датчик давления S1, главный тип управления;
- проверьте правильность электрических соединений;
- если конфигурация правильная, выйдите из процедуры, в противном случае выберите NO и перейдите к шагу 2;

