

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



Refrigerant compatibility

R22; R134a; R404A; R407C; R410A; R507a; R290; R600; R600a; R171; R744; R728; R1270; R417A; R422D; R413A; R424A; R423A; R407A; R427A; R425F; R607; R32; HFO1; HFO2; R513; R1234ze; R1234ze; R455A; R170; R442A; R447A; R448A; R449A; R450A; R452A; R508B; R452B; R513A; R454B; R458A

Table of product codes

code	EVD evolution	code	display (accessory)
EVD000000	EVD Evolution universal (pLAN)	EVD000070	Display (French)
EVD000001	EVD Evolution universal (pLAN)	EVD000080	Display (German)
EVD000010	EVD Evolution universal (pLAN)	EVD000090	Display (Spanish)
EVD000020	EVD Evolution universal (RS485)	EVD000100	Display (French)
EVD000021	EVD Evolution universal (RS485)	EVD000110	Display (German)
EVD000030	EVD Evolution for CAREL valves	EVD000120	Display (Portuguese)
EVD000031	EVD Evolution for CAREL valves (RS485)	EVD000130	Display (Spanish)
EVD000040	EVD Evolution for CAREL valves (pLAN)	EVD000140	Display (French)
EVD000041	EVD Evolution for CAREL valves (pLAN)	EVD000150	Display (German)
EVD000050	EVD Evolution for CAREL valves (RS485/Modbus*)	EVD000160	Display (Portuguese)
EVD000051	EVD Evolution for CAREL valves (RS485/Modbus*)	EVD000170	Display (Spanish)
EVD000100	EVD Evolution universal (accessorized pLAN)	EVD000180	Display (French)
EVD000200	EVD Evolution universal (accessorized RS485/Modbus*)	EVD000190	Display (German)

(*) The multiple packages are not supplied with connectors

Table of valve compatibility

CAREL	Model
ALCO	EXE, EXS, EXL, EX7; EXB 330 Hz (supported by CAREL); EXB 300 Hz (from EVD evolution)
SPORLAN	SL1, SL1-1, SL1-2, SL1-3, SL1-4, SL1-5, SL1-6, SL1-7, SL1-8, SL1-9, SL1-10, SL1-11, SL1-12, SL1-13, SL1-14, SL1-15, SL1-16, SL1-17, SL1-18, SL1-19, SL1-20, SL1-21, SL1-22, SL1-23, SL1-24, SL1-25, SL1-26, SL1-27, SL1-28, SL1-29, SL1-30, SL1-31, SL1-32, SL1-33, SL1-34, SL1-35, SL1-36, SL1-37, SL1-38, SL1-39, SL1-40, SL1-41, SL1-42, SL1-43, SL1-44, SL1-45, SL1-46, SL1-47, SL1-48, SL1-49, SL1-50, SL1-51, SL1-52, SL1-53, SL1-54, SL1-55, SL1-56, SL1-57, SL1-58, SL1-59, SL1-60, SL1-61, SL1-62, SL1-63, SL1-64, SL1-65, SL1-66, SL1-67, SL1-68, SL1-69, SL1-70, SL1-71, SL1-72, SL1-73, SL1-74, SL1-75, SL1-76, SL1-77, SL1-78, SL1-79, SL1-80, SL1-81, SL1-82, SL1-83, SL1-84, SL1-85, SL1-86, SL1-87, SL1-88, SL1-89, SL1-90, SL1-91, SL1-92, SL1-93, SL1-94, SL1-95, SL1-96, SL1-97, SL1-98, SL1-99, SL1-100
SPORLAN	SL1, SL1-1, SL1-2, SL1-3, SL1-4, SL1-5, SL1-6, SL1-7, SL1-8, SL1-9, SL1-10, SL1-11, SL1-12, SL1-13, SL1-14, SL1-15, SL1-16, SL1-17, SL1-18, SL1-19, SL1-20, SL1-21, SL1-22, SL1-23, SL1-24, SL1-25, SL1-26, SL1-27, SL1-28, SL1-29, SL1-30, SL1-31, SL1-32, SL1-33, SL1-34, SL1-35, SL1-36, SL1-37, SL1-38, SL1-39, SL1-40, SL1-41, SL1-42, SL1-43, SL1-44, SL1-45, SL1-46, SL1-47, SL1-48, SL1-49, SL1-50, SL1-51, SL1-52, SL1-53, SL1-54, SL1-55, SL1-56, SL1-57, SL1-58, SL1-59, SL1-60, SL1-61, SL1-62, SL1-63, SL1-64, SL1-65, SL1-66, SL1-67, SL1-68, SL1-69, SL1-70, SL1-71, SL1-72, SL1-73, SL1-74, SL1-75, SL1-76, SL1-77, SL1-78, SL1-79, SL1-80, SL1-81, SL1-82, SL1-83, SL1-84, SL1-85, SL1-86, SL1-87, SL1-88, SL1-89, SL1-90, SL1-91, SL1-92, SL1-93, SL1-94, SL1-95, SL1-96, SL1-97, SL1-98, SL1-99, SL1-100
SPORLAN	SL1, SL1-1, SL1-2, SL1-3, SL1-4, SL1-5, SL1-6, SL1-7, SL1-8, SL1-9, SL1-10, SL1-11, SL1-12, SL1-13, SL1-14, SL1-15, SL1-16, SL1-17, SL1-18, SL1-19, SL1-20, SL1-21, SL1-22, SL1-23, SL1-24, SL1-25, SL1-26, SL1-27, SL1-28, SL1-29, SL1-30, SL1-31, SL1-32, SL1-33, SL1-34, SL1-35, SL1-36, SL1-37, SL1-38, SL1-39, SL1-40, SL1-41, SL1-42, SL1-43, SL1-44, SL1-45, SL1-46, SL1-47, SL1-48, SL1-49, SL1-50, SL1-51, SL1-52, SL1-53, SL1-54, SL1-55, SL1-56, SL1-57, SL1-58, SL1-59, SL1-60, SL1-61, SL1-62, SL1-63, SL1-64, SL1-65, SL1-66, SL1-67, SL1-68, SL1-69, SL1-70, SL1-71, SL1-72, SL1-73, SL1-74, SL1-75, SL1-76, SL1-77, SL1-78, SL1-79, SL1-80, SL1-81, SL1-82, SL1-83, SL1-84, SL1-85, SL1-86, SL1-87, SL1-88, SL1-89, SL1-90, SL1-91, SL1-92, SL1-93, SL1-94, SL1-95, SL1-96, SL1-97, SL1-98, SL1-99, SL1-100

Table of EVD LEDs

LED	Function	Color	Meaning
LED1	Power supply	Green	Power supply OK
LED2	Driver not powered	Red	Wrong power supply
LED3	Alarm active	Yellow	Alarm active

Display keypad

Use the keypad to enter the password to access programming mode. Press the **ENTER** key to confirm the parameter and display the next parameter to be set. Press the **ESC** key to return to the main menu.

IMPORTANT WARNINGS

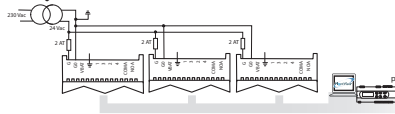
The CAREL product is a state-of-the-art device, whose operation is specified in the technical documentation supplied with the product or can be downloaded, even prior to purchase, from the website www.carel.com. The customer (manufacturer, developer or installer of the final equipment) accepts all liability 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.

Disposal of the product

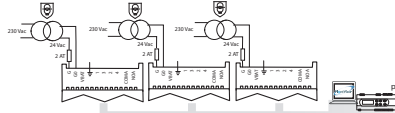
The appliance for the product must be disposed of separately in accordance with the local waste disposal legislation in force.

tLAN, pLAN and RS485 connections and power supply

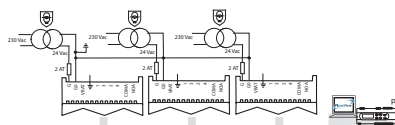
Case 1: a series of drivers is connected in a network, installed in the same electrical panel, powered by the same transformer



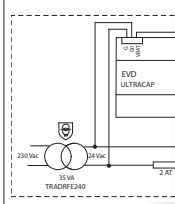
Case 2: a series of drivers is connected in a network, installed in electrical different panels, powered by different transformers (G2 not connected to earth).



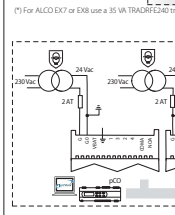
Case 3: a series of drivers is connected in a network, installed in electrical different panels, powered by different transformers with just one earth point.



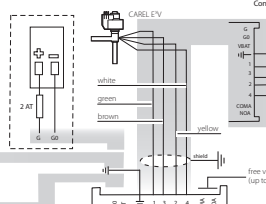
CASE 1: 230Vac power supply with emergency module



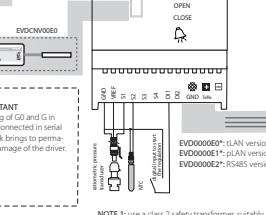
CASE 2: 230Vac power supply without emergency module



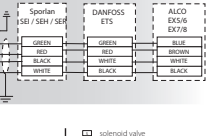
CASE 3: 24Vdc power supply



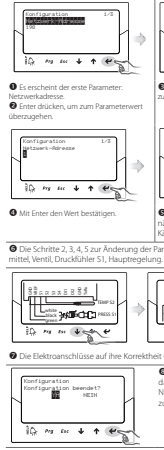
Wiring diagram for superheat control



Connection to other valve types



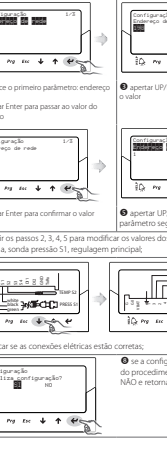
Einstellung der Basisparameter



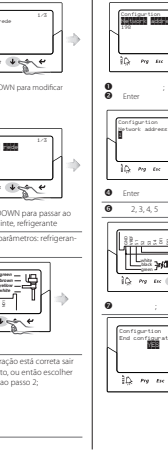
Configuração dos parâmetros base



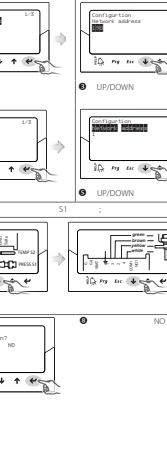
Установка основных параметров



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Установка основных параметров

