

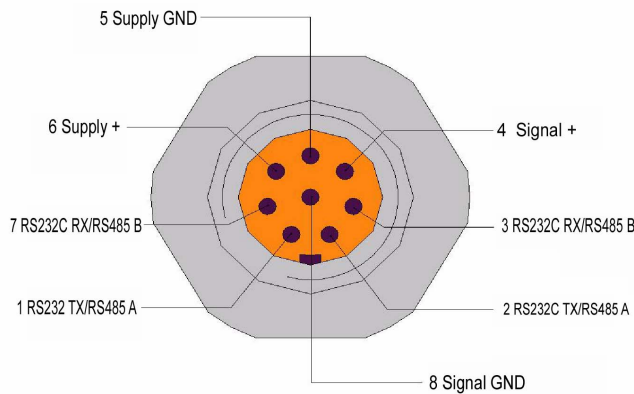
VAISALA CARBOCAP® CARBON DIOXIDE PROBE GMP343

Power supply: Operation voltage Power consumption	10 ... 36 VDC without heating < 1 W with heating max 3.5 W
Analog output Current output resolution max load	4 ... 20 mA 14 bits 800 ohm@ 24 VDC, 150 ohm @ 10 VDC
Voltage output resolution min load	14 bits (13 bits with 0 ... 2.5 V) 5 kohm

Electrical Connections

Signal and Power Supply Wiring

WARNING Be sure that the main power is switched off before making any electrical connections.



Pin	Wire	Serial signal (RS232 or 2-Wire RS485 interface)		Analog signal
1	White	RS232C: TX	RS485: A	-
2	Brown	RS232C: TX	RS485: A	-
3	Green	RS232C: RX	RS485: B	-
4	Yellow	-	-	Signal +
5	Grey	Supply GND	Supply GND	Supply GND
6	Pink	+10 ... 36 V DC	+10 ... 36 V DC	+10 ... 36 V DC
7	Blue	RS232C: RX	RS485: B	-
8	Shield	-	-	Signal GND

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There are two pins per signal internally hardwired in parallel (pins 1 and 2, pins 3 and 7). You should connect the RS232C signal 'TX' (or 2-Wire RS485 signal 'A') either to the pin 1 or 2 and the RS232C signal 'RX' (or 2-Wire RS485 signal 'B') either to the pin 3 or 7.

Note that there is either an RS232 or a 2-wire RS485 interface available according to initial configuration. However, if the device is configured as RS485 output, the device can still be started into an RS232 mode for the settings by PC. Refer to Chapter 6 in the user's guide for the details.

Wiring of the Junction Box

The optional 8-pole junction box enables practical in-line connection. The box is provided with 8 numbered terminals.

Taking into Use

The device is ready for use when the wiring is done and power is switched on.