

VAISALA SPECTRACAP[®] OXYGEN TRANSMITTER OMT355

Power supply:	
Nominal	24 VDC, 500 mA
Absolute range	11 ... 36 VDC
Power consumption ($U_{in} = 11$ VDC):	
Maximum	5.5 W @ 80 °C
Typical	3 W
Analog output:	(0) 4 ... 20 mA
Maximum load for analog output:	500 Ω

Electrical Connections

CAUTION

Before making any electrical connections, always make sure that the power supply wires are unpowered.

Wiring with Connector Board Terminals

Open the front cover (**never open the side cover**) with 3 mm Allen key provided in the packing box to access the terminals. If connector option is in use it is not necessary to open the front cover, see section *Wiring with Optional 8-Pole Connector* for instructions.

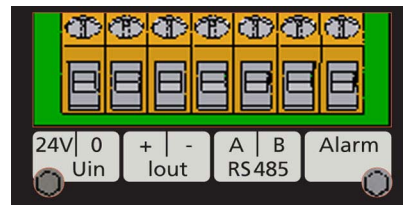


Figure 1 OMT355 Connector Board Wire Terminals

1. Open the transmitter back cover. Make sure that the **Power ON/OFF** switch is in the **b** position.
2. Slide in the cable through the bushing in the bottom of the transmitter. To avoid damage, the cable must be unpowered.
3. Connect the supply voltage between the terminals **Uin (24V)** and **(0)**.
4. Current output is available between the terminals **Iout (+)** and **(-)**. Current output can be tested by connecting an ammeter between the test points **ITEST+** and **ITEST-** when output is loaded.
5. Two wire RS-485 is available between the terminals **RS 485 (A)** and **(B)**. Line termination can be enabled by changing the **RS485 Termination** jumper position to **b**.

6. Floating relay contact is available between the two **Alarm** terminals.
7. Wirings are now complete. See sections *Grounding* and *Taking into Use* for instructions on how to ensure EMC compliance and take the transmitter into use.

Wiring with Optional 8-Pole Connector

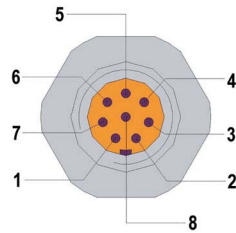


Figure 2 Optional 8-Pole Connector

Terminal	Color	#
Uin+ 24 V	PINK	6
Uin- 0 V	GREY	5
Iout+	YEL	4
Iout-	BRN	2
RS-485 A	WHT	1
RD-485 B	BLU	7
Alarm	RED	8
Alarm	GRN	3

Grounding

In order to fulfill EMC requirements, the transmitter should be connected to earth using the external terminal provided.

Taking into Use

Make sure that the **Power ON/OFF** switch (located above the LCD display) is in the **ON** position, and attach the front cover securely. Switch on the supply voltage. The transmitter performs self-tests and diagnostic functions on powerup, and outputs measurement results after approximately 2.5 minutes.