

OXYGEN MEASUREMENT IN ALUMINIUM HEAT TREATMENT FURNACES



UNI SENSOR OMD 1700 Oxygen Analyzer is an in-situ zirconia oxygen analyzer designed to optimize combustion by continuously measuring the oxygen concentration inside the flue gases.

Based on the measured oxygen values, **amont of additional gases (nitrogen, etc.)** which sent to the furnace atmosphere is controlled to achieve necessary heat treatment conditions.



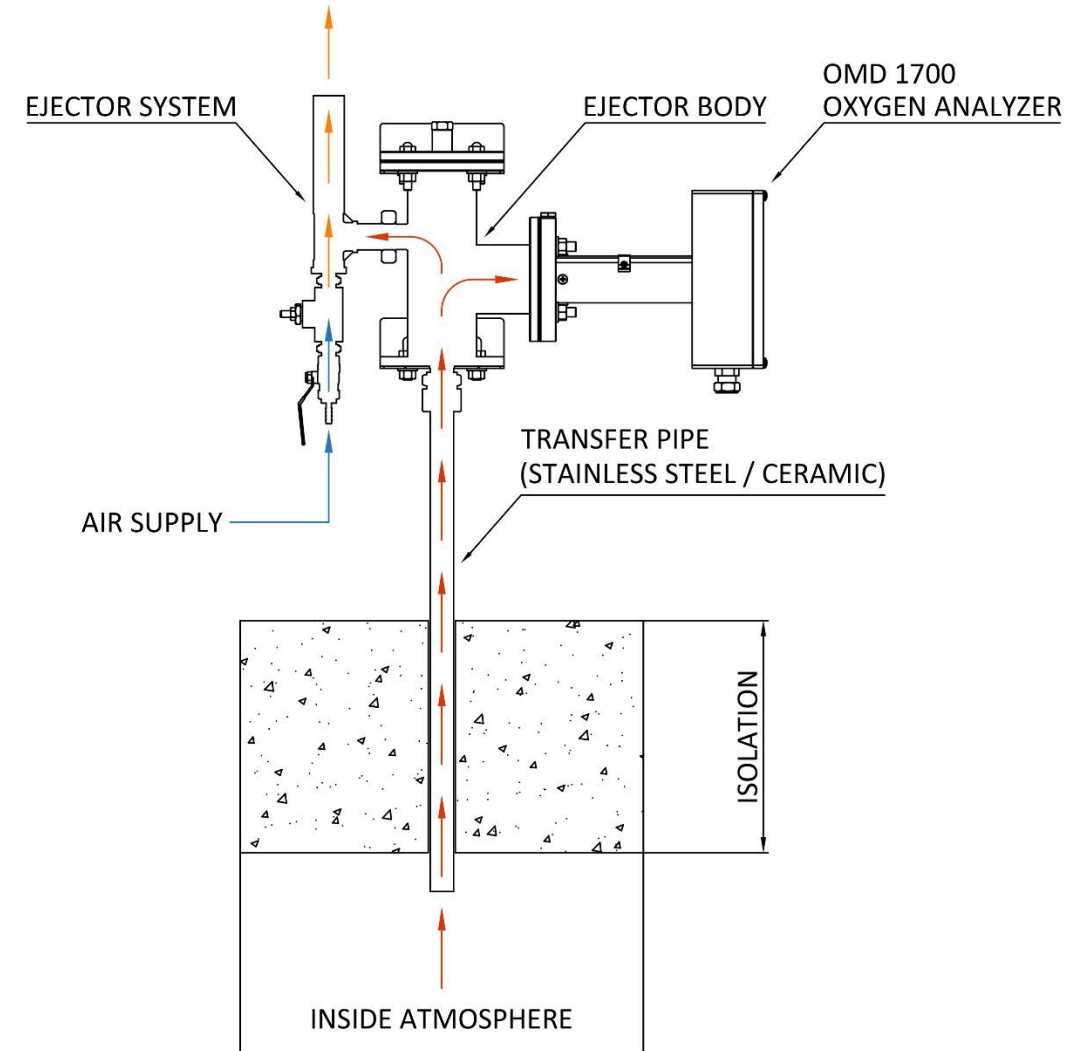
WORKING PRINCIPLE

OMD 1700 OXYGEN ANALYZER



OMD 1700 Oxygen Analyzer works with a Zirconium Dioxide (ZrO_2) Oxygen Sensor. Integrated ejector system directs the flue gases towards the sensor. Sensor measures the Oxygen levels and transmit them to other systems via 4 - 20 mA output signal.

Measuring Range:	0 - 25 % O_2
Power Supply:	24 V DC, 3A
Output Signal:	4 - 20 mA
Ambient Temperature:	-10 .. 50 °C
Accuracy:	1 %
Reaction Time:	< 4 s
Manual Calibration:	Available



AVAILABLE MODELS FOR ALUMINIUM HEAT TREATMENT FURNACES

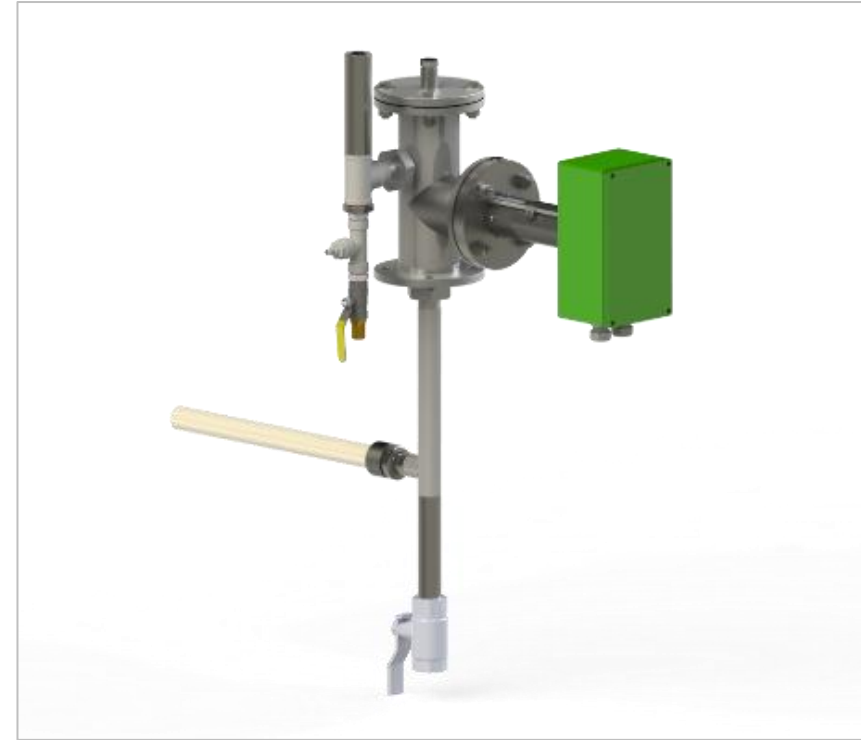


OMD 1700 - SS

Ejector System

Stainless Steel Transfer Pipe

Max. 900 °C



OMD 1700 - CER

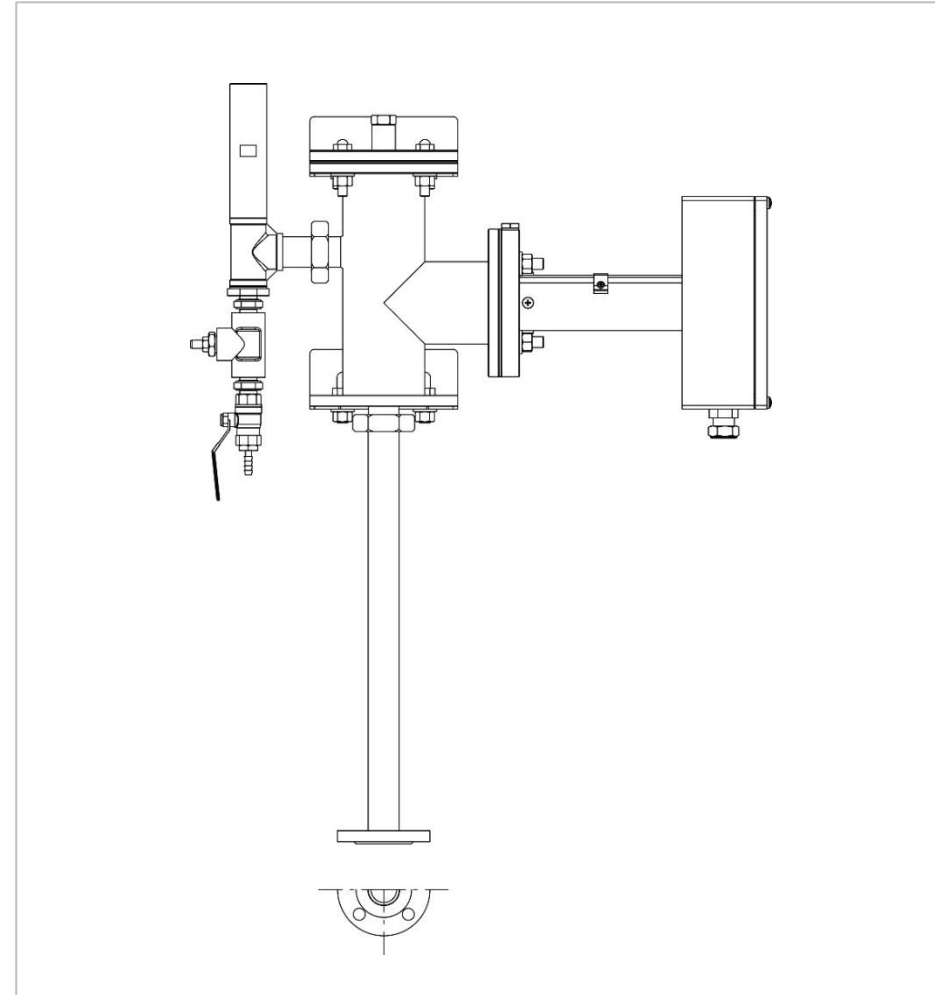
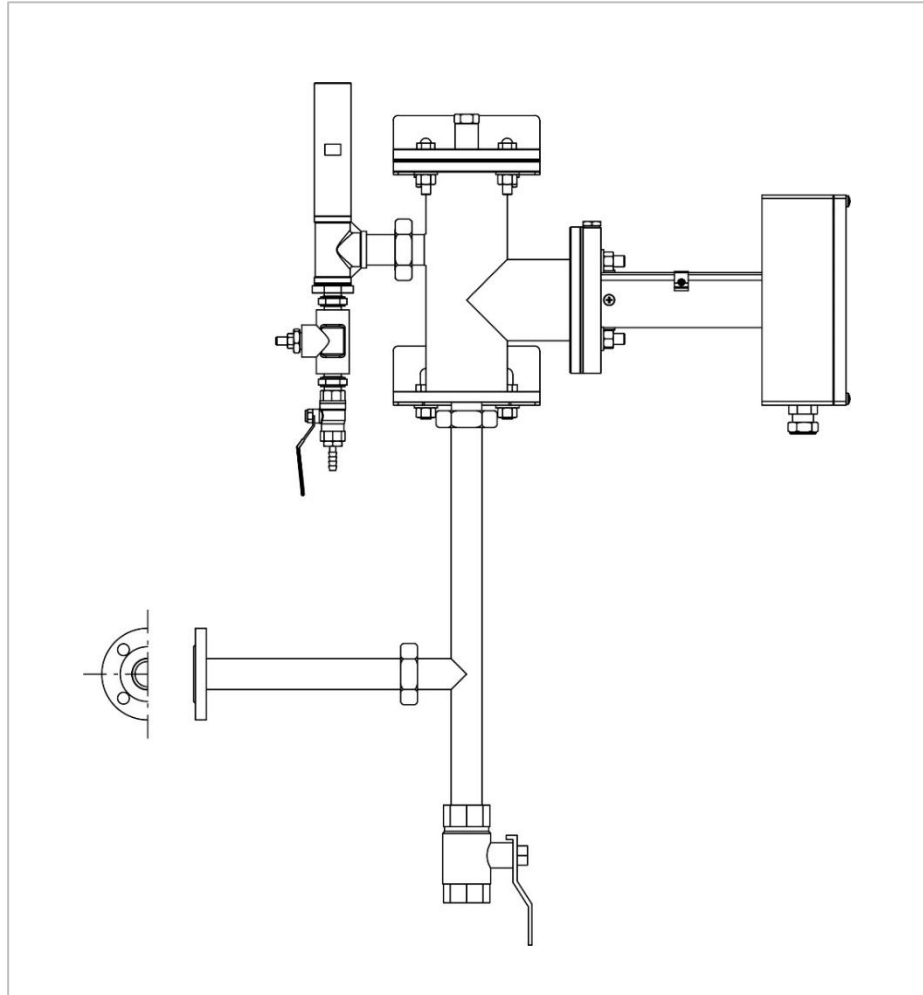
Ejector System

Ceramic Transfer Pipe

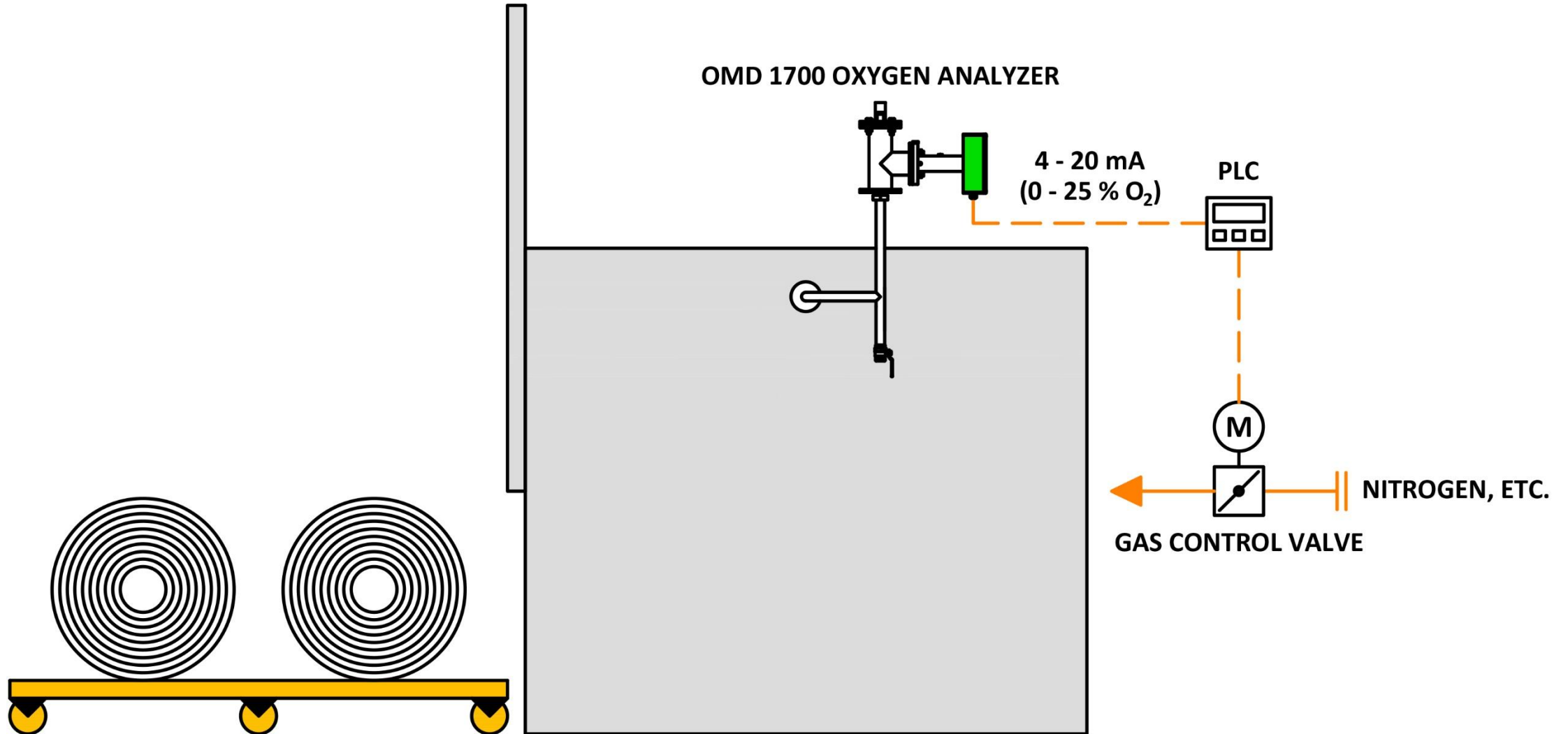
Max. 1400 °C

MOUNTING OPTIONS

VERTICAL & HORIZONTAL



ATMOSPHERE CONTROL IN ALUMINIUM HEAT TREATMENT FURNACES



ATMOSPHERE CONTROL IN ALUMINIUM HEAT TREATMENT FURNACES

