

ANALYTICS OXY HT ANALYZER OXYGEN MEASUREMENT IN HIGH TEMPERATURES

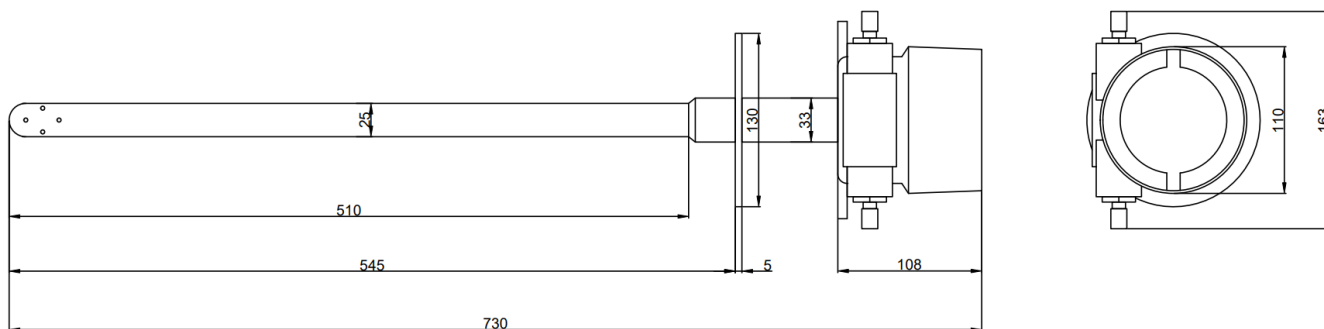


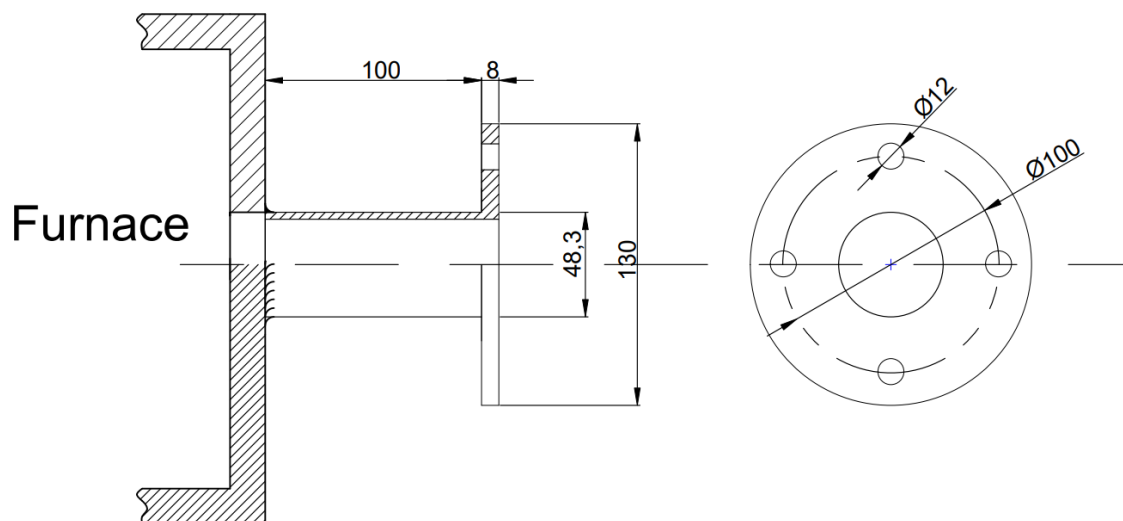
High Temperature Oxygen Analyzer is used for measuring concentration of oxygen in high temperatures between 700°C up to 1400°C. Probe measures oxygen level at operating ranges between 0,5% to 21%.

It consists of Operating Panel and high temperature HT Oxygen Probe connected by cables.

It is well used for industrial applications such as incinerators, ovens, kilns, furnaces where fuel/air ratio is critical for proper process control or where oxygen concentration is critical for achieving proper final product parameters.

Oxygen probe has ceramic sheath for protection inner electrode which is built on Zirconium Platinum electrode basis. For temperatures between 700°C up to 1150°C any angle of installation is allowed. Above 1150°C vertical installation is recommended as the probe can bend due to high temperature effects. It is connected by means of connecting flange, which dimensions are given further. All dimensions are in mm.





Control Panel

Screen	: 1 x 4 LED each
Buttons	: 4 x
Analog outputs	: 4-20mA
Faults indication	: LED indication, error coding
Enclosure	: 4-20mA
Operating temperatures	: -30 to 65°C
Supply voltage	: 85-265V AC
Frequency of supply voltage	: 47-63Hz

HT Oxygen Probe:

Operating temperatures	: 700 – 1400°C
Sheath	: Ceramics
Dimensions	: See the drawing, different lengths of the HT temp. Probe available – ask Analytics for more details
Measuring range	: 0,5-21% O ₂
Response time	: 1 – 5 sec.
Measuring principle	: Zirconium sensor
Reference gas flow and pressure	: 20 – 100 ml/min at 0,7bar (10psi) *
Calibration gas flow and pressure	: 0,3 – 1 l/min; nominal 0,7l/min at 0,7bar(10psi) *
Calibration gas composition	: 15 - 20,9% O ₂ in N ₂ for the range 0,5- 5% O ₂ w in N ₂ for zero

* Note – in case of dirt and pressure inside of the measuring area, pressure at 2 bar (30psi) could be necessary