

Model AP-2
Oxygen Analyzer
MONITORING
PACKAGE

INTRODUCTION

Hays Cleveland is a pioneer in the development and application of zirconium oxide oxygen analyzers for continuous monitoring of flue gas oxygen levels in industrial and utility boiler plants. The Oxygen Analyzer Monitoring Package makes upgrading of existing oxygen monitoring equipment possible at a low total installed cost. The Oxygen Analyzer Monitoring Package includes an operator's cabinet, one of three Hays Cleveland probes, and our advanced microprocessor-based Series A10050 Oxygen Analyzer Electronics unit. The electronics unit controls the probe heater to maintain the probe at a constant temperature for accuracy and long cell life. RS 485 Modbus communications is standard. Inputs for fuel type(s), flue gas temperature and combustion air temperature are options for computing combustion efficiency. For more information on the A10050 Oxygen Analyzer Electronics unit, please refer to Bulletin BA10050A0.

Field installation of the Oxygen Analyzer Monitoring Package is simple: mount the operator's cabinet, install the probe, hook up instrument air and power to the cabinet, and run the cable and tubing between the probe and the cabinet. Often, facility personnel can install and start-up the monitoring package unassisted in less than eight hours.

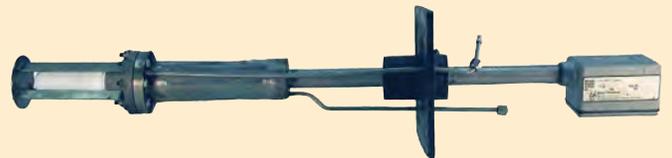
ZIRCONIUM OXIDE IN STACK OXYGEN ANALYZER PROBES *(select one)*

Model A-10007-B0 OXYPROBE™ has long been recognized as the most reliable and stable probe for utility boiler, rotary kiln, and other process applications. The OXYPROBE™ patented zirconium oxide cell with low voltage heater and high temperature RTD offers remarkable stability and accuracy even at the high levels of oxygen found in applications including flue gas mixing and many other processes. For more information, please refer to Bulletin BA10007.

Model A-10018-A0 OXY-MIZER™ has long been recognized as the most reliable and stable probe for both fire and water tube industrial boilers. The OXY-MIZER™ probe's patented zirconium oxide cell with low voltage heater and high temperature RTD offers remarkable stability and accuracy. The adjustable



Model A-10007-B0
 O₂ Analyzer Probe



Model A-10018-A0
 O₂ Analyzer Probe



Model A-08562-A0
 Analyzer Probe

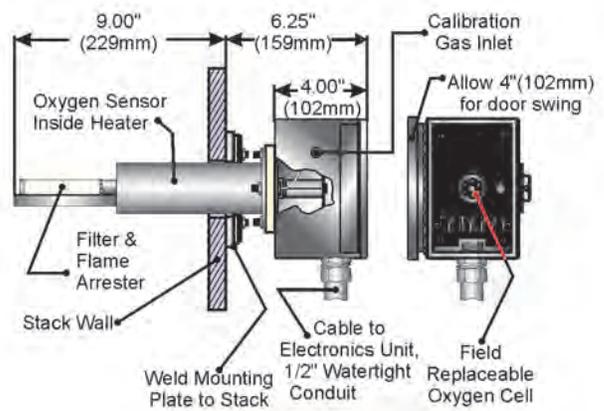
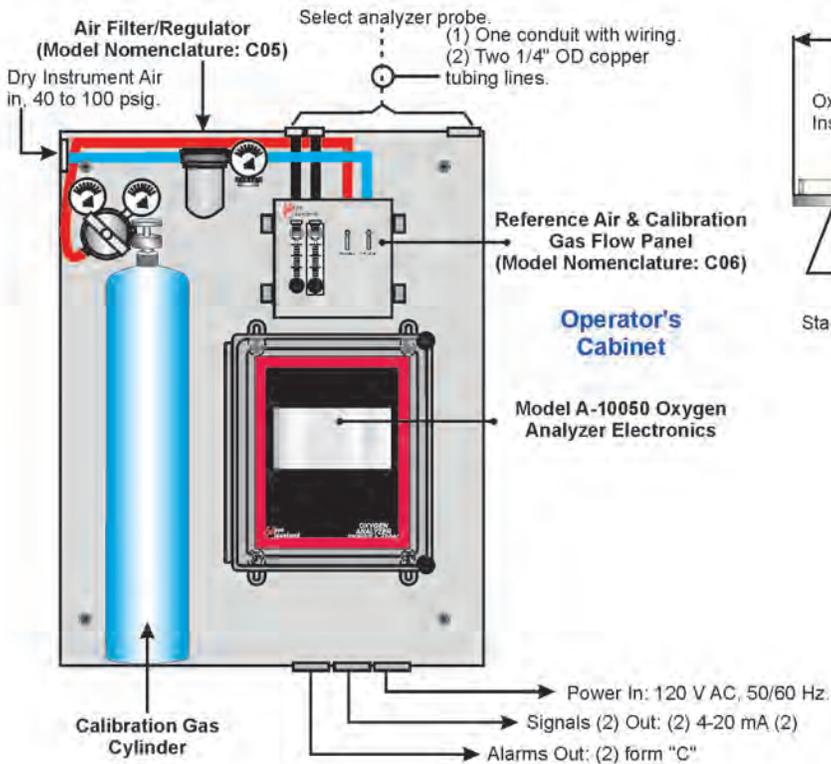


Model A-10050-A0
 O₂ Analyzer Electronics

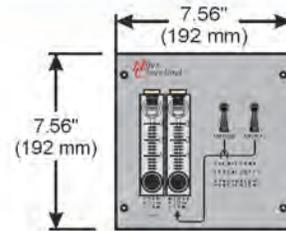
insertion length of the probe adapts to both fire tube and water tube boiler applications. For more information, please refer to Bulletin BA10018A0.

Model A-08562-A0 MINI-O2™ Analyzer is designed specifically for control and monitoring of smaller fire tube boilers. The 8"-insertion probe consists of a zirconium oxide cell, type K thermocouple, and cell heater. For more information, please refer to Bulletin BA08562A0.

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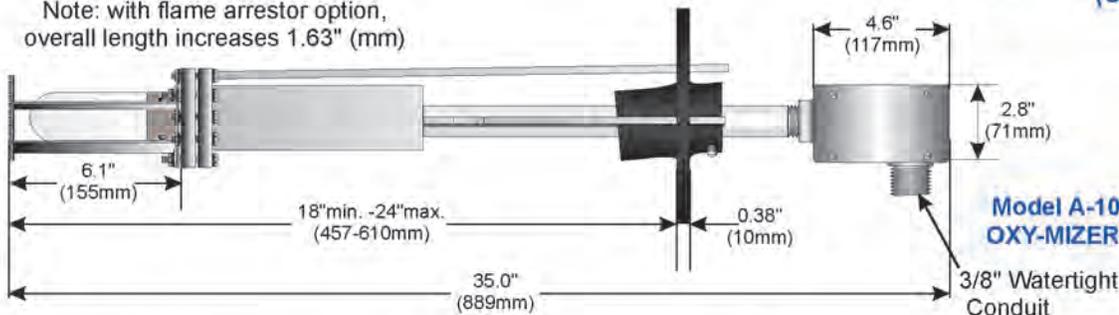


Model A-08562-A0 MINI-O2™ Probe



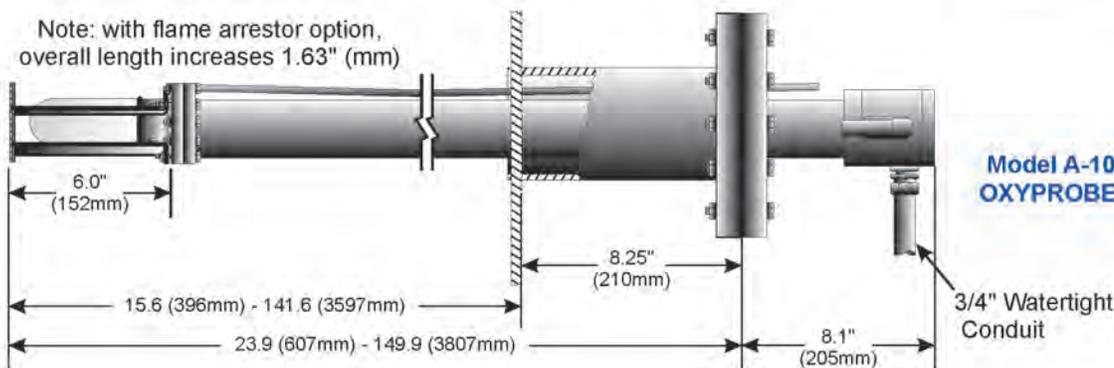
Example of Flow (Calibration) Panel (C06)

Note: with flame arrester option, overall length increases 1.63" (mm)



Model A-10018-A0 OXY-MIZER™ Probe

Note: with flame arrester option, overall length increases 1.63" (mm)



Model A-10007-B0 OXYPROBE™ Probe

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