



Technical Support Note

Title: Calibration Recommendations for O2 only and CO2/O2 MAP Analyzers

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36 O2_CO2 Map Calibration Recommendations.docx

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Overview:

The purpose of this document is to provide general and detailed calibration recommendations for Bridge MAP gas analyzers measuring oxygen and/or carbon dioxide.

Oxygen Only Analyzers: (900002-10, 900041 Series)

These analyzers self-calibrate the oxygen measurement channel automatically on ambient air oxygen during operation, and need no further span calibration for oxygen levels below 60% oxygen. For oxygen levels above 60%, we recommend local periodic 90 day calibration on certified test gas containing the oxygen level present in the gas to be measured.

For 900002-10 series analyzers measuring oxygen levels below 0.100%, we recommend annual calibration of the low oxygen measurement at our facilities. For 900041 oxygen analyzers measuring oxygen levels below 0.100%, we recommend local periodic 90 day calibration on oxygen-free (Nitrogen or the equivalent) gas.

CO2 / Oxygen Analyzers: (900102-10, 900141 Series)

Oxygen Channel Calibration:

Oxygen channel calibration recommendations are identical to the Oxygen only analyzers specified above.

CO2 Channel Calibration:

For altitude of use at or below 3,000 ft above mean sea level.

Annual calibration at Bridge facilities is adequate to maintain CO2 accuracy within product specifications.

For altitude of use above 3,000 ft above mean sea level.

We recommend initial local calibration at the altitude of use using certified test gas containing CO2 at 60% to 80% full instrument range – and local periodic 90 day calibration using the same gas.

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At any use altitude:

For CO₂ accuracy greater than the product specifications, we recommend local initial and periodic 90 day calibration using certified test gas containing CO₂ at 60% to 80% full instrument range.

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