OMD-507 Series
Intuitive Menu Reference Guide

Document Control

Version	Date Published	Approved By:
1.00	August 18, 2026	BA

Percent and PPM Oxygen Analyzer Configurations

Purpose. This guide provides a concise reference to the OMD-507 front-panel menu structure. Menu availability may vary by analyzer configuration. Use this guide together with the OMD-507 Operation Manual.

Front-Panel Navigation

Key	Function
MENU	Open the main menu.
UP / DOWN	Move through selections or increase/decrease a setting.
ENTER	Accept a selection or perform the displayed calibration/action.
ESC	Cancel or return to the previous screen.

Main Menu Overview

Menu Item	Function
AUTO RANGE	Automatically selects the active analog-output range as oxygen concentration changes.
MANUAL RANGE	Locks the analog output to a selected full-scale range.
SPAN CAL	Adjusts the analyzer reading to a known span value.
ZERO CAL	PPM configuration only. Performs zero calibration after a verified zero condition has been established.
SYSTEM	Accesses output simulation, output calibration, sensor type, custom range, and MODBUS ID settings.

1. PPM Configuration

The PPM menu includes Auto Range, Manual Range, Span Cal, Zero Cal, and System functions.

Manual Range

Selectable Range
0-25%
0-10,000 PPM
0-1,000 PPM
0-100 PPM
0-10 PPM
Custom: 0-995 PPM

NOTE: The OMD-507 platform includes a sixth, user-configurable range. For PPM configurations, the default custom range is listed as 0–995 PPM. The user can adjust this range to match the desired full-scale measurement and PLC/DCS scaling. For example, if the PLC is programmed for 0–2,200 PPM, the Custom Range can be configured to 0–2,200 PPM. This provides additional flexibility for application-specific configurations.

Calibration

Menu	Controls
SPAN CAL	UP = increase | DOWN = decrease | ENTER = calibrate | ESC = exit
ZERO CAL	ENTER = calibrate | ESC = exit

System Menu

Function	Available Settings / Controls
OUTPUT SIM	4 mA / 1 V | 8 mA / 2 V | 12 mA / 3 V | 16 mA / 4 V | 20 mA / 5 V
OUTPUT CAL	4 mA output, 20 mA output, and 10 V output. UP/DOWN adjust; ENTER calibrates; ESC exits.
SENSOR TYPE	PPM | Percent
CUSTOM RANGE	UP/DOWN adjust; ENTER accepts/calibrates; ESC exits.
MODBUS ID	UP/DOWN adjust; ENTER accepts; ESC exits.

NOTE: Output availability depends on the electrical configuration of the analyzer. Refer to the OMD-507 Operation Manual for wiring and output details.

2. Percent Configuration

The Percent menu includes Auto Range, Manual Range, Span Cal, and System functions. Zero Cal is not available in the Percent configuration.

Manual Range

Selectable Range
0-100%
0-25%
0-10%
0-5%
0-5%
Custom 0-15%

NOTE: The OMD-507 platform includes a sixth, user-configurable range. For Percent configurations, this range can be adjusted to match the desired full-scale measurement and PLC/DCS scaling. For example, a custom 0–15% range can be configured when the application requires a full-scale range different from the standard selections. This provides additional flexibility for application-specific configurations.

Span Calibration

Menu	Controls
SPAN CAL	UP = increase | DOWN = decrease | ENTER = calibrate | ESC = exit

System Menu

Function	Available Settings / Controls
OUTPUT SIM	4 mA / 1 V | 8 mA / 2 V | 12 mA / 3 V | 16 mA / 4 V | 20 mA / 5 V
OUTPUT CAL	4 mA output, 20 mA output, and 10 V output. UP/DOWN adjust; ENTER calibrates; ESC exits.
SENSOR TYPE	PPM | Percent
CUSTOM RANGE	UP/DOWN adjust; ENTER accepts/calibrates; ESC exits.
MODBUS ID	UP/DOWN adjust; ENTER accepts; ESC exits.

Electrical Configuration Notes

Configuration	Menu / Output Considerations
2-Wire	12 – 24 VDC Loop-powered configurations. Non-isolated 4 – 20mA output.
3-Wire	12–24 VDC configuration with 4–20 mA Isolated output, and MODBUS ASCII functions as equipped.
6-Wire	12–24 VDC configuration with Non-isolated 4–20 mA, 0–10 VDC, and MODBUS ASCII functions as equipped.

REFERENCE: For calibration procedures, analog-output scaling, electrical connections, sensor installation, and sample-system requirements, refer to the current OMD-507 Oxygen Analyzer Operation Manual.