

Ultima® Controller Guide



The controller provides complete access to all advanced features of the Ultima® X Gas Monitor through its full-function keypad. The controller is used for basic calibration functions along with displaying minimum, maximum and average gas values, displaying date of last calibration, setting span-gas values and alarm values, setting the real time clock, and changing address. It is completely password-protected.

*Because every life has a **purpose...***

Calibration & Instrument Selection

Ultima Controller Summary

- ON – Press 'ENTER'
- OFF – Press 'CLEAR' for 5 seconds or unit turns off automatically after 100 seconds

Calibration Signal

- Disable / enabling
- Press 'SEND'
- Press 'CAL'
- + / - to select 'CAL SIGNAL ENABLE'
- Enter
- Aim
- Press '0' or '1'

Select Ultima or Ultima X

- Ready
- Display
- Press '0' or '1'

Calibration Procedure

Zero Only

- Ready
- Aim controller
- Press "ZERO"

Zero & Span

- Ready
- Aim controller
- Press "CALIBRATION"

Information Display

Information Retrieval

- Ready
- Send
- Display
- Use +/- to scroll to desired item
(min, max, avg, zero, span value, alarm values, etc)
- Aim
- Enter

Display All Information

- Ready
- Send
- Hold display button until display all
- Aim
- Press '1'

Settings

Setting Span Values

- Ready
- Send
- Span
- Use +/- for gas list (i.e. 500 ppm CO)
- Enter
- Put in number (i.e. 300)
- Aim
- Enter

Set Date or Time

- Press and hold Date or Time
- Prompt appears
- Put in new date or time
- Enter

Send Date or Time

- Send
- Aim
- Date or Time

Setting Alarm Values

- Ready
- Send
- Alarm
- 0 – set point
- Use +/- for gas type
- Enter
- Point #
- Enter
- Point value
- Aim
- Enter
- 1 – On/Off
- Use +/- for gas type
- Enter
- Point #
- Enter
- (Alarm prompt) or OR
- 1 – Enable 0 – Disable
- Latched / non-latch

Reset Latched Alarms

Send any command and it will reset a latched alarm once it is below the alarm value.

Send Average Time Interval

- Ready
- Send
- Average
- Use +/- for 1, 8, 24 hours
- Aim
- Enter

Programs

You can create Programs 1–9 for repetitive items. (See Manual)

Example

- Press and hold 'PROGRAM' button until 'Enter Program #'
- Enter number '1 – 9'
- Enter
- Ready
- Hit keystrokes and listen for 2 beeps
- Send
- Display
- + / -
- Previous Cal Date
- Enter (saving)

Program Run

- Press 'PROGRAM'
- Enter #
- Aim
- Enter

Program O

- Repeats last command
- Press 'PROGRAM'
- Enter '0'
- Aim
- Enter

Clear Programs

- Hold in #0
- Reset Prompt Yes/No
- Aim
- Press 0 = N, 1 = Y

Notes

Regular Calibration	Point Controller at detector, press "CAL" button, zero and span is automatic
Initial Calibration	Press and Hold the SPAN button – 3 seconds, press 1 for yes, zero and span is now automatic, with 30 second countdowns.
To abort span cal	hit, zero/cal/or address button.
Set Time	Press and hold the TIME button
Set Date	Press and Hold the DATE button
Battery Life	"READY" displayed in capital letters indicates strong batteries "ready" displayed in lower case indicates weak batteries
Default Controller Password	9999

Troubleshooting Tips

CAL FAULT	- You did not pass calibration – Do over A. May have used wrong gas B. Adjustment limits exceeded – Do "I Cal"
I CAL	- Overrides factory adjustments - Hold "SPAN" button down until prompt asked for "I Cal" - Aim - Press "1"
SENSOR RESET	- Press "SEND" twice - Prompt asked for reset - Aim - Press "0" or "1"
CALIBRATION ABORT	You can press "CAL" or "ZERO" button during countdown and it will abort calibration

MSA Controller Menu Table

SEND / DISPLAY		SEND / SPAN	SEND / CAL
- Current Gas Value - Minimum Gas Reading - Maximum Gas Reading - Average Gas Reading - Zero Value - Span Value - Alarm 1 Setpoint - Alarm 2 Setpoint - Alarm 3 Setpoint - Current Time - Future Cal Time - Average Time	- Current Date - Future Cal Date - Previous Cal Date - Sensor Address - Cal Interval - Cal Sig Status - Range Value - Alert Option - Gas Table Value - Swap Delay Option	- Ultima X Span Value - Ultima X Range - Ultima X Gas Table	- Sensor Swap Delay - Alert Option 4-20 - Cal Sig Enable - Days per Auto Cal - Start Hr of Cal - Next Cal Date

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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