

Ultima®

Auto-Calibration Module

The Ultima Auto-Calibration Module automatically performs all the necessary routine calibrations on your Ultima Gas Monitor. It can calibrate your gas monitor once a day, once a month, or anytime in between. Auto-calibration saves you money, by freeing your maintenance staff from performing the periodic sensor calibrations. Sensor calibration can be performed automatically, anytime, even in the middle of the night when your process is off line. No longer will you be concerned about your gas sensors receiving the routine calibration they require.



The Auto-Calibration Module will alert you if it cannot calibrate the sensor. If the gas within the calibration cylinders is low or the check gas flow is inadequate, the fault indicator lights. The internal fault relay can be wired to alert you that the unit needs attention.

Harsh environmental conditions are no problem. This module uses the same robust NEMA 4X enclosure as the Ultima Gas Monitor. In classified or hazardous areas, the explosion-proof model is available; it is rated for Class 1, Division 1, Groups C & D.

The Auto-Calibration Module is also available with internal alarm relays that:

- Allow local control at the sensor location or,
- Can alert personnel during alarm or fault conditions.

Features

- Easy installation and operation
- Optional internal relays (one for each of the three alarms within the Ultima Gas Monitor and a fault relay)
- Status, fault, zero and span indicators
- NEMA 4X and explosion-proof installation ratings.

- Can be field-installed to existing Ultima Gas Monitors

Benefits

- Lowers your overall routine calibration costs
- Simplifies your maintenance
- Calibrate sensors during off peak hours

Installation

The Auto-calibration module mounts next to any Ultima Gas Monitor. In most installations, there is no need to open the enclosure. The connection to the Ultima Gas Monitor is made via a simple plug-in wiring harness. The zero and span check gases connect to the smaller conduit that controls gas flow to the sensor.

By using the Ultima Controller, you can program sensor calibration to fit your schedule. The controller also configures any optional relays.

Operation

The Ultima Gas Monitor controls the entire calibration cycle. If a problem arises, the monitor will periodically attempt to calibrate the sensor for up to an hour. It then indicates a calibration fault condition. During a fault condition, the sensor does not

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Specifications

Temperature range:

Operating: -20° to 50° C
(-4° to 122° F)

Non-Operating: -40° to 60° C
(-40° to 140° F) @15 to 95% RH,
non-condensing

Hazardous Area Rating:

Explosion-proof Models: Class I,
Division 1, Groups C and D
Power: 7-30 VDC @ 5Watts
Relay: .6Amps @ 110VDC
or AC, non-inductive

Physical:

Size: 9 x 6 x 5 in.
(228.5 x 152.4 x 127 cm)
Weight 4.5 lb. (2.041 kg)
Calibration Gas Connection:
1/8" NPT female @ 10 to 20 PSIG

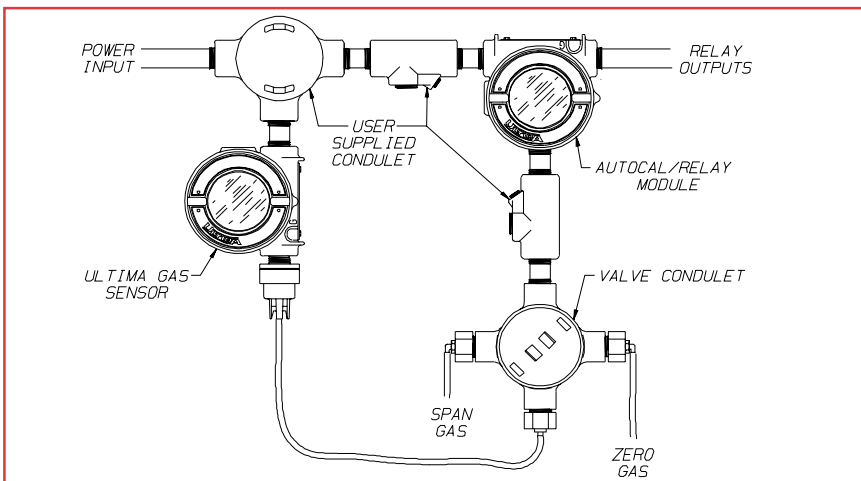
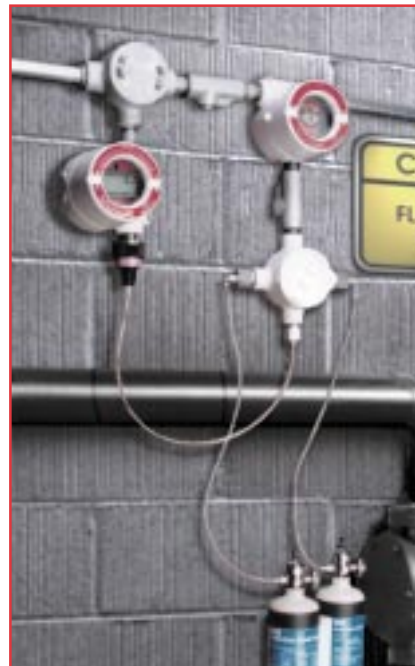
stop operating; it uses its previous calibration parameters.

During an auto-calibration cycle, the alarms from the monitor are disabled to prevent false alarms or activation of equipment connected to the relays. When the cycle is complete, however, the alarms are re-enabled automatically.

By using the Controller, you can check the latest successful calibration date. If calibration is necessary, you do not need to wait for the next auto-calibration cycle; You can start an auto-calibration cycle with the controller, at any time.

Ordering information

See the Ultima ordering guide
#0730-00



Represented by:



Note: This Data Sheet contains only a general description of the MSA Ultima Auto-Calibration Module. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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