Portable Test and Calibration Unit

GASSONIC

The **GASSONIC 1701** is a portable test and calibration unit used to verify the operation and, if necessary, calibrate the GASSONIC Ultrasonic Gas Leak Detectors (UGLD).



Although the GASSONIC detectors do not require regular maintenance, the GASSONIC 1701 can be used to satisfy the requirements for regular plant maintenance. Compared to traditional detection methods, calibration gas is not needed for testing the functionality of



To ensure stable test conditions, the GASSONIC 1701 is easily attached onto the GASSONIC UGLD via a bayonet fitting to ensure a well defined distance between the detector microphone and sound source in the GASSONIC 1701. This ensures that traceable and accurate test conditions can be obtained. If only a non-traceable function testing of the GASSONIC UGLD is necessary, the handheld GASSONIC SB100 can be utilized where the GASSONIC UGLD can be bump tested up to 18 meters distance from the detector.

Features & Benefits

Features	Benefits
Traceable and calibrated to international standards	Provides clear evidence that the detector always has the same detection coverage thereby ensuring reliability. Comes with individual calibration sheet, calibrated to international standards
Tests full dynamic range as well as delay function	Tests all GASSONIC Ultrasonic Gas Leak Detectors which eases maintenance
Onsite calibration of Gassonic UGLD	No need to open up detector or remove parts in the field
Approved for use in hazardous areas	No need for special work permit prior to use

Functions

Test Function

The test function in the GASSONIC 1701 is for traceable testing of GASSONIC UGLD. In test mode, the GASSONIC 1701 emits a constant calibrated sound that the ultrasonic gas leak detector responds to. On the GASSONIC Observers and MSA Ultrasonic EX-5, the sound level emitted from the GASSONIC 1701 appears on the display of the detector and on the GASSONIC Surveyor, the trigger level is displayed on the GASSONIC 1701.

Calibration Function

The GASSONIC UGLD can be re-calibrated onsite. When calibrating the detectors, the portable test and calibration unit emits a series of ultrasonic sound levels at different amplitudes. It then automatically performs a zero and a span calibration of the detector.

Delay Test Function

During the delay test function, a constant sound level is emitted from the GASSONIC 1701. The purpose of this function is to test the GASSONIC ultrasonic gas leak detectors after they have been installed with either the built-in delay function enabled or an external delay function. The GASSONIC 1701 delay test function permits users to verify the complete signal transmission from the detector head into the fire and gas panel or the DCS system.

Step Function

For more accurate testing, a step test can be performed on the GASSONIC Observers and MSA Ultrasonic EX-5 where the dynamic range from 44 dB to 101 dB can be tested in 1 dB steps.



Technical Specifications

Traceable portable test and calibration unit for GASSONIC UGLD
±3dB within the sensitivity range of the GASSONIC UGLD (44 to 104 dB)
ATEX: II2G EEx ib IIC T3 CSA: Class I, Div. 1
ATEX, C-UL, CE
2 years
Rechargeable NiMH battery pack
10 hours of full operation without backlight 5 hours of full operation with backlight Standby state: approximately 2 months Low battery indicator in display
Fast charging current: 650 mA for 2 hours
EN 50081-1 (1992) Generic emission standard; Part 1: Residential, commercial and light industry EN 50081-2 (1993) Generic emission standard; Part 2: Industrial environment
EN 50082-1 (1997) Generic immunity standard. Part 1: Residential, commercial and light industry EN 61000-6-2 (1999)
-15°C to 50°C (5°F to 122°F)
-20°C to 60°C (-4°F to 140°F)
173 mm H x 105 mm W x 115 mm D (6.81 in H x 4.13 in W x 4.53 in D)
1.6 kg (3.53 lbs)
173 mm H x 452 mm W x 325 mm D (6.81 in H x 17.79 in W x 12.79 in D)
6.8 kg (15 lbs); includes GASSONIC 1701 and accessories
80510-1

Maintenance

If traceability is required, the GASSONIC 1701 should be returned to the factory for re-calibration, according to international standards.

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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