



The CTS Sentinel MH is a proven leak test solution with thousands of installations worldwide. It provides high-resolution leak test measurements with fast, repeatable results in a compact, modular design. It supports multiple differential pressure test types and comes with CTSnet LT software for easy setup and instrument management.

High-Resolution Leak Testing in a Small Package

The Sentinel MH is the ideal solution when you require a very fast leak test. This requirement is common in several applications within these markets:



Automotive



Powertrain



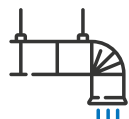
Consumer Goods



Energy



Consumer Electronics



HVAC/R



Medical



Other Transportation

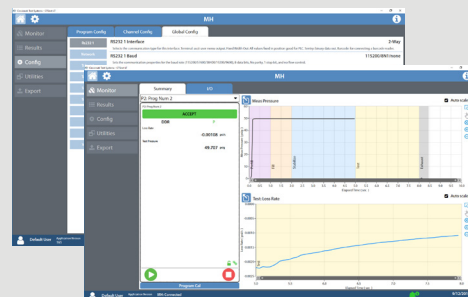
Test Types

The Sentinel MH is an advanced, high-resolution, multifunction leak test instrument. It supports 32 test programs and stores up to 5000 test results. It is a cost-effective solution for multiple tests. The MH can perform the following five tests:

- Differential Pressure/Vacuum Decay - ΔP
- Differential Pressure/Vacuum Decay - $\Delta P/\Delta T$
- Differential Pressure/Vacuum Decay - Leak Standard
- Differential Pressure/Vacuum Decay - Leak Rate
- Occlusion (Back Pressure)

NEW: CTSnet LT for Fast, Easy Discovery and Configuration

CTSnet LT is an intuitive user interface that allows easy control of Sentinel MH instruments right from a PC. Using CTSnet LT, you can discover all MH instruments on the network, connect to them, configure all the parameters available on the instrument, then start and stop a test and read the results in real time. You can also upgrade the firmware and backup/restore test programs. Programs can be copied to and from different instruments for faster setup. Configuration details, calibrations and test results can all be exported so you can retrieve historical data at any time.



WHY USE SENTINEL MH?

Modular, distributable system creates scalable installation options

Because the Sentinel MH is compact and modular, you can easily build out to the number of channels you need, cost-effectively. Installation of a leak test instrument close to the part under test is a highly desirable capability because it reduces system volume and allows for a more accurate test result. The MH can be placed where you wish and offers PLC communications via serial or Ethernet/IP.

Plenty of I/O to meet all your needs

The MH comes with seven inputs and five outputs that are programmable for any function you need.

Optional electronic regulator

An optional electronic regulator enables a high-speed test with faster stabilization.

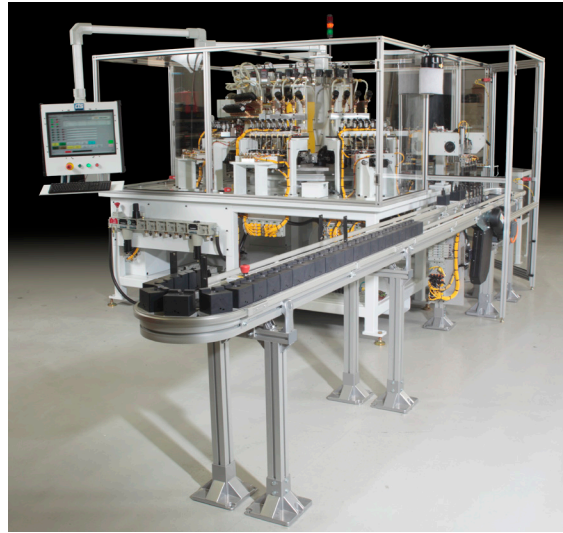
Flexibility with differential pressure test types

The MH supports five differential pressure tests so you can choose the test type that's right for your production line.



Compatible with QualityWorX CTS DataHub

The MH supports connection to the QualityWorX CTS DataHub, allowing you to collect and analyze leak test data for traceability.



Can be integrated into a machine

Because it is a small instrument, the MH can be integrated easily into a test station, either in a single bay with manual fixturing, or in a multi-bay setup with automatic fixturing.

Tested and proven instrument gives you peace of mind

The Sentinel MH is proven in thousands of installations with CTS customers, providing them with a cost-effective, multi-channel leak test.

Achieve IP67 Compliance for Sealed Devices

IP67 is a standard used for addressing leak testing of sealed devices. It differentiates the amount of “ingress protection” (IP) a product has. An IP67-rated product is guaranteed to be dust-tight and sufficiently sealed to withstand immersion in water to a depth of 1 meter for 30 minutes. The Sentinel MH allows manufacturers to produce products that comply with the IP67 standard.

IP67

1st Digit	Definition
0	No Protection against contact and ingress of objects
1	Protected against any large surface of the body, such as the back of a hand. Protected against solid objects greater than 50mm in size
2	Protected against access to hazardous parts by a finger or similar object. Protected against solid objects greater than 12.5mm in size
3	Protected against access to hazardous parts with a tool or thick wire. Protected against solid objects greater than 2.5mm in size.
4	Protected against access to hazardous parts with a wire, screw, etc. Protected against solid objects greater than 1mm in size.
5	Protected against access to hazardous parts. Dust protected.
6	Protected against access to hazardous parts. Dust protected.

2nd Digit	Definition
0	No protection
1	Protected against water drops
2	Protected against water drops at a 15 degree angle
3	Protected against a water spray at 60 degree angle
4	Protected against water splashing from any angle
5	Protected against powerful water jets from any angle
6	Protected against powerful water jets and heavy seas
7	Protected against the effects of temporary submersion. Test requires 30 minutes at 1 meter depth.
8	Protected against the effects of temporary submersion. Customer specification applies and specific testing may be required.
9K	Protects against high pressures associated with stream cleaning

Key Specifications

Please see the Sentinel MH datasheet for full specifications.

- 32 test programs
- High resolution
- CTSnet LT PC application interface
- Live data streaming
- Stores up to 5000 test results
- Cost effective leak test instrument

For more information on the Sentinel MH, please visit www.cincinnati-test.com/sentinel-mh

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