

# Sentinel<sup>®</sup> MH

## COMPACT, HIGH-RESOLUTION INDUSTRIAL LEAK TESTER



## **Highlights**

- ✓ 32 test programs
- ✓ High-resolution
- ✓ CTSnet PC application interface
- ✓ Live data streaming
- ✓ Stores up to 5000 test results
- ✓ Cost-effective
- ✓ High Speed Option

## Description

The Sentinel<sup>®</sup> MH is an advanced high-speed multi-function pressure decay or mass flow leak test instrument. It provides high-resolution leak test measurements with fast and repeatable results in a compact modular design allowing placement closer to the part.

#### APPLICATIONS

- Automotive
- Powertrain
- Consumer Goods
- Energy
- HVAC/R
- Medical
- Consumer Electronics
- Other Transportation

### **Sentinel MH Specifications**

Housing (HxWxD)	6.5 x 3.5 x 8.5 in (165 x 90 x 215 mm) See mounting and clearance diagrams
Electrical	24 VDC +/- 1% 1.5 Amps
Air Quality	ISO 8573-1:2010 [2:2:2] Compressed air or nitrogen only
Pressure Regulation	External (customer supplied) or Internal Electronic regulator
Test Pressure	Vac – 200 psig
Pilot Pressure	55 - 70 psig (3.8 – 4.8 bar)
Operating Temperature	41-104° F (5-40° C)
Operating Humidity	90% non-condensing
1/0	7 Inputs / 5 Outputs
Instrument Weight	4.9 lbs (2.2 kg)





#### **Pressure Decay Test Capabilities**

- Differential Pressure/Vacuum Decay ΔP
- Differential Pressure/Vacuum Decay ΔΡ/ΔΤ
- Differential Pressure/Vacuum Decay Leak Standard
- Differential Pressure/Vacuum Decay Leak Rate
- Occlusion (Back Pressure)

#### Interfaces

- Communication via RS232, TCP/IP (Telnet), and EtherNet/IP™
- Tooling control for simple applications
- I/O: 7 inputs / 5 outputs independently set per test program

## **Measurement Characteristics**

Measurement Accuracy*	±0.006 % FS
Measurement Resolution	0.000001 ∆psi
Leak Rate Resolution	0.00005 sccm

\*Consult factory for details

## **Mass Flow Test Capabilities**

- Mass Flow Test Types Mass Flow
- Mass Flow Leak Standard
- Flow rate
  - Displayed resolution:
    - Range is selectable X X.XXXXX displayed units
- Flow Transducer Options:

0.5-50 scc/min 2-250 scc/min 5-500 scc/min

- 10-1,000 scc/min
- 30-3,000 scc/min

100-10,000 scc/min

#### **Options**

- Electronic regulator (pressure decay only)
- Multiple pressure ranges
- External leak standard port

#### **High Speed Test Capabilities**

- Absolute Pressure/Vacuum Decay ΔP
- Absolute Pressure/Vacuum Decay Leak Standard
- Sample Rate:
  - Reduced from 50ms standard to 10ms
- Certain Features are disabled to get faster sample rate
  - Monitor 1 screen summary: Disabled
  - Data Streaming (RS232/TELNET/USB): Disabled
  - No storage for results. Only 2000 stored in RAM and lost on power cycle
  - Pneumatic code A only
  - No log storage on SD card

#### Accessories

- Calibrated leak standard
- CTS Connects
- Calibrated adjustable leak simulator
- Filter kit

Continued...

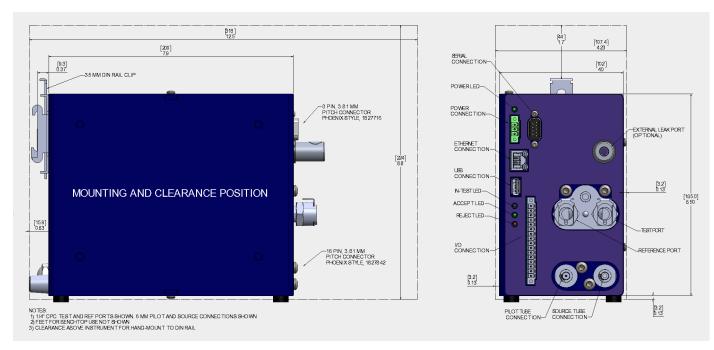


### **CTSnet**

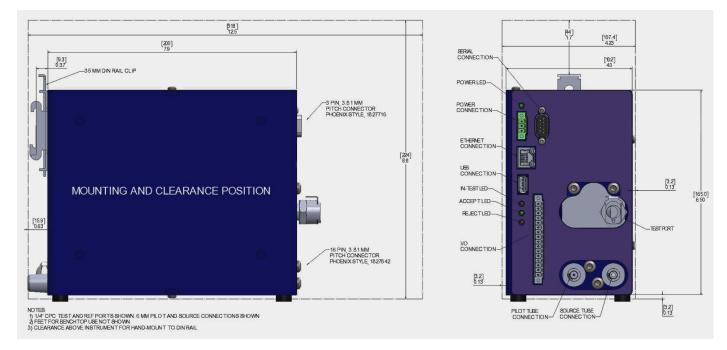
- Intuitive user inteface that allows easy control right from your PC
- Connect  $\rightarrow$  Configure  $\rightarrow$  Run a test (Start/Stop)  $\rightarrow$  Read results
- Monitor test in real-time
- Export configuration, calibrations, and results
- Available in English, German and Chinese



## **Pressure Decay Mounting and Clearance Position**







## **Mass Flow Mounting and Clearance Position**

## **High Speed Mounting and Clearance Position**

