CINCINNATI TEST SYSTEMS

Sentinel® TracerMate II

LEAK TEST AND TRACER GAS MANAGEMENT INSTRUMENT

Highlights

- ✓ Supports basic and advanced sniffer test types
- ✓ Supports pressure decay test types
- ✓ 99 programs
- ✓ Program calibration with CTS Performance Factor
- ✓ Communication RS232, TCP/IP
- ✓ Parent program linking
- ✓ Global-friendly control interface
- ✓ Automatic program calibration with leak standard

Description

The Sentinel TracerMate II is an advanced, multi-functional leak test and tracer gas instrument used to detect microleaks.
It is an integrated leak test solution that works with almost any gas sensor.

Applications

- ▪ Automotive
- ▪ Electric vehicles
- ▪ HVAC/R
- ▪ Industrial assemblies
- ▪ Appliances

TracerMate II Specifications

Instrument Housing	TracerMate wall mount configuration 16" w x 16" h x 8" d (406 x 406 x 204 mm)
Electrical	100-240 VAC, 50/60 Hz
Air Quality	ISO 8573-1:2010 [2:2:2]
Pilot	60 psig (4.1 bar) minimum
Operating Temperature	41-104° F (5-40° C)
Operating Humidity	90% non-condensing
Digital I/O	12 inputs and 12 outputs, 24 V - 1 A max. Tooling control up to 5 motions with feedback
Instrument Weight	45-60 lbs (20-27 kg)

Pressure Decay Test Types

- Pressure/Vacuum Decay - Leak Standard
- Pressure/Vacuum Decay - ΔP
- Occlusion - Pressure or Vacuum
- Pressure Verify
- Parent Program Linking

TracerMate Test Types

- Sniffer
- Accumulation
- Basic and Advanced Hardvac
- Basic and Advanced Hardvac (Precharged)
- Purging Clamshell (Patented Technology)
- Evacuation and N2 Backfill / Purge
- Step Proof Test
- Refrigerant Fill
- Capillary Test

TracerMate Test Assist

- Parent Program Linking
- Sequential Linking
- Helium Recovery Valve

Measurement Resolution

TEST PRESSURE / PRESSURE LOSS

Displayed Resolution:
Range is selectable X - X.XXXXXX displayed units during pre-fill, fill, stabilize, test, and exhaust

Transducer Options:

Range	Measurement	Resolution
0-20 psia	-14.7 to 5 psig	0.000004 psig
0-45 psia	-14.7 to 30 psig	0.000008 psig
0-115 psia	-14.7 to 100 psig	0.000021 psig
0-215 psia	-14.7 to 200 psig	0.000040 psig
0-515 psia	-14.7 to 500 psig	0.000096 psig
0-1015 psia	-14.7 to 1000 psig	0.000250 psig

LEAK RATE

Displayed Resolution: Selectable X - X.XXXXX displayed
Instrument Resolution: 0.0005 scc/min

Pressure Regulators

- Maximum 3 + 1 vacuum (externally mounted)
- Manual regulator options

  0.2 to 2.5 psiv (0.5-5 inHG)
  2.5 to 14.5 psiv (5-29 inHG)
  0.5 to 10.0 psig(non-relieving)
  2.0 to 100.0 psig (non-relieving)
  4.0 to 250.0 psig (non-relieving)
  6.0 to 500.0 psig (non-relieving)
  10.0 to 750.0 psig (non-relieving)

Leak Standard

- External leak quick connect included standard
- Chamber calibration leak external on purging clamshell, accumulation chamber, or hard-vacuum chamber
- Helium permeation for helium verification, front port of instrument
- Gas mix capillary, introduced in test port

Accessories

- External hardvac gauge
- External nitrogen purge valves
- Purging clamshell
- Remote start/stop pendant
- Benchtop stand

RS232 Communication Ports

- 2-way communication
- Test result data transmission with definable fields
- Pressure streaming for waveform analysis
- Generated reports with test data and configuration
- Sniffer/weight scale communication
- Barcode unique part identification

Ethernet Port

- 2-way Telnet communication
- Email of reports, test data, and alerts
- Test result data transmission with definable fields
- Test program selection

External USB Port

- Provides additional program storage capacity and synchronized test result data storage
- Backup/restore of instrument functions
- Report storage
- Test result data storage and automated result synchronization

Compact Enclosure Design

Communication connections located at the side, test ports and pressure regulators on the bottom of the unit

Full-Color LCD Display

- 480 x 272 pixels
- User-friendly icon-based menus
- Menu operating modes: Basic, Advanced, Admin
- Graphing of Pressure or Flow vs. Time with plot position and zoom capability
- Displays active/inactive status of digital inputs and outputs

Selectable Menu Languages

- Language neutral operator interface
- English, Spanish, Chinese, Korean, Portuguese, and German language options

3-Color Light-Bar

- Panel mount light indicators provide visual feedback of test results
- White = In-Test, Green = Accept, and Red = Reject
- Eliminates stack lights
- Adjustable brightness
- Adjustable duration

Password Security

- Select menu items to secure or unsecure

Help Menus

- On-screen popup window description of parameters (activated by single shortcut key)
- Minimizes need to have the equipment manual present when programming the instrument

CINCINNATI TEST SYSTEMS Corporate Headquarters – 10100 Progress Way, Harrison, OH 45030
Phone (513) 367-6699 | International (513) 202-5100 | sales@cincinnati-test.com | cincinnati-test.com

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