



# TracerMate CS™

TRACER GAS MANAGEMENT AND LEAK  
DETECTOR CONTROLLING INSTRUMENT



# TracerMate CS Leak Test Instrument

TracerMate is an integrated leak test solution that works with a mass spectrometer or gas analyzer to detect micro-leaks by measuring for a concentration of helium or hydrogen gas escaping from a sealed part. TracerMate CS is a precision instrument that executes and reports the results of the tracer gas leak test.

## TracerMate Test Types

Standard and Optional tests, manifolds and control valves

### Standard Instrument

- Gross pressure / vacuum decay -  $\Delta P$
- Sniff test leak location
  - Gross and fine leaks
- Evacuation and Tracer Gas Fill
- Event drive sequence capability

### Optional Instrument Tests

- Proof test (maintains pressure)
- Pressure decay w/secondary pressure
- Capillary back pressure test
- Tracer gas reclaim
- N2 back fill and part evacuation
- High vacuum pump out

### Advanced Test Options

- Advanced sniff - up to 20 locations
- Purging clam shell - nitrogen fill
- Accumulation
- Hard vacuum - precharged test
- Hard vacuum - w/ chamber control
- Refrigerant fill

## Tracer Gas System Highlights

### Advantages of Tracer Gas

- Enhanced leak sensitivity and resolution for increased leak test accuracy
- Capability to detect micro-leaks down to  $1 \times 10^{-9}$  scc/sec
- Faster test times than air-flow leak testing technology
- Non-temperature dependent test accuracy
- Significantly reduces false leak failures

### Global Friendly

- Language neutral operator interface
- Multi-language - software selectable
  - English, Spanish, Chinese, and Korean
- Smart voltage selection
- International power cable included

### Custom Configurations

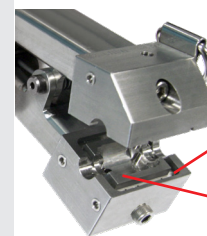
- Cabinet and Wall Mount Configurations
- Multi-Port for Sequential Testing
  - 1, 2, and 3 port test ports
  - Test a single part with multiple chambers or multiple unique parts
- High flow / high pressure manifolds
  - From 1/2 to 1 inch and larger valves
  - High flow valves reduces part evacuation and fill time

### Low Maintenance

- Reduced wear - long life valves and manifolds
- Self-test function
- Modular design - easy maintenance

### Patented 'Nitrogen Purge' System Controls Background, Detects Micro-leaks with Repeatable Accuracy

#### Custom Purging Clam Shell Clamps Over Tubing Joints



Outer chamber provides nitrogen curtain to force out background

Inner chamber measures for tracer gas concentration



# TracerMate CS Features

## Pressure Test Range Options

- -14.7 to 100, to 200, to 400, and to 700 psig
- Higher pressures available, consult factory
- 0 to 500 psig with electronic regulator option

## Data / Communications

- Test result storage to 30,000 events
- Expandable with USB memory stick
- 99 test program storage with linkable programming
- 6 Digital Inputs/6 outputs and 8 output valve drivers
- Tooling control for up to 5 motions
- Auto Program Calibration to Leak Standard
- RS232 and Ethernet communication ports
- Barcode part identification
- Email of reports, test data, and alerts
- Test result data transmission with definable fields
- Selectable interface to most gas leak detection devices

## Product Enhancements

- Patented Auto Setup
- Quik Test (reduces test time)
- Environmental drift correction
- High contrast color display
- XY Graphing (pressure, pressure loss or flow)
- High CV flow manifold options for large part applications
- Auto Gas Shutoff
- Internal vacuum generator option
- External leak standard
- Validated software

Integrated TracerMate  
Leak Location System



Custom TracerMate  
'purging clam shell' system  
with integrated mass spectrometer

## Our Family of Test Instruments and Products



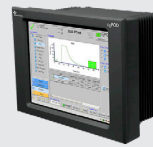
Blackbelt Pro



3520



sigPOD Controller



Blackbelt



I28



C28



LPC 528



C20



CTS Connect®  
Connectors and Seals



CTS Leak Standards and  
Calibration Services

Visit our website: [www.cincinnati-test.com](http://www.cincinnati-test.com)



## LEAK TEST SOLUTIONS AND SOFTWARE FOR IN-PROCESS DATA ANALYSIS

CTS, CTS-Schreiner and Sciometric are subsidiaries of the TASI Group. In November 2017, the three companies came together within TASI's Product Integrity Division. We are unified by the fact that we are "Better Together". Together, we deliver the broadest leak test portfolio in the industry. Together, we serve our customers through a global network of offices and partners. Together, we will harness the power of the Industrial Internet of Things and bring all of its potential to industrial companies worldwide.

### INDUSTRIES WE SPECIALIZE IN



AUTOMOTIVE



POWERTRAIN



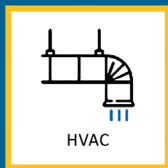
CONSUMER GOODS



MEDICAL



ENERGY



HVAC



OTHER TRANSPORTATION



Cincinnati Test Systems Inc.  
10100 Progress Way  
Harrison, OH 45030  
513.367.6699  
www.cincinnati-test.com

Cincinnati Test Systems-Schreiner GmbH  
Rudolf-Diesel Strasse 17-19  
85521 Ottobrunn, Germany  
+49 (0) 89 608093-0  
www.schreiner-testing.com

Sciometric Instruments Inc.  
359 Terry Fox Drive, Suite 100  
Ottawa, Ontario K2K 2E7  
1.877.931.9200  
www.sciometric.com



Tracer Mate is a trademark of Cincinnati Test Systems Inc.  
©2019 Cincinnati Test Systems Inc.  
Printed in U.S.A.