



# Sentinel I28<sup>®</sup>

LEAK AND FLOW TEST INSTRUMENT



# Sentinel I28 Leak Test Instruments

The Sentinel I28® is Cincinnati Test Systems' most versatile and technically advanced multi-functional leak and flow test instrument and is now offered in three models:

- Pressure Decay
- Mass Flow
- Differential Pressure Decay

## Standard I28 Test Types by Model

### Pressure Decay Test Types

- Pressure or vacuum decay - leak std
- Pressure or vacuum decay -  $\Delta P$
- Pressure or vacuum decay -  $\Delta P / \Delta T$
- Occlusion - pressure or vacuum decay
- Ramp to Proof - pressure
- Volumetric Fill

### Mass Flow Test Types

- Mass Flow
- Mass Flow - leak std

### Differential Pressure Test Types

- Differential pressure decay -  $\Delta P$
- Differential pressure decay - leak std
- Differential pressure decay - leak rate
  - Fixed Charge Fill for sealed device testing

## Instrument Highlights

### Superior Performance

- Leak rate measurement resolution:
  - PD / Mass Flow 0.0005 scc/min
  - DP 0.00005 scc/min
- Powerful 32-bit processor
- 24 bit A/D converter
- Optimized pneumatic manifolds
- Flow meter sized to the application
- Environmental drift correction

### Global Friendly

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

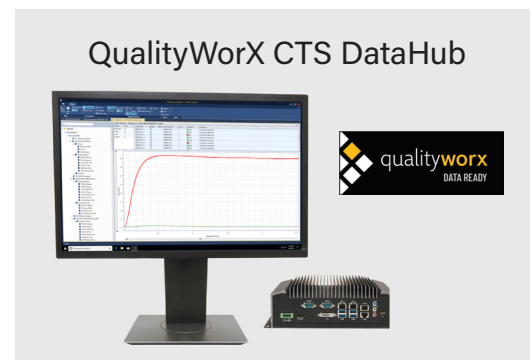
### Low Maintenance

- Reduced wear – long life valves and manifolds
- Modular design for easy maintenance
- 40 million cycle valve manifolds

## QualityWorX CTS DataHub

### Analyze Your Sentinel I28 Leak Test Data in Real-time

- Turnkey solution that collects and analyzes test data from Sentinel instruments
- Easy setup, begin analyzing your test result data in minutes of startup
- Create visual real-time process signatures with your data
- Includes a host PC and installed Sciometric Studio analytics software



# I28 Features

## Test Range Options by Model

- Pressure -14.5 to 500 psig
- Flow 0.5 to 3000 scc/min
- Differential Pressure -14.5 to 200 psig

## Data / Communications

- Data storage to 40,000 events, expandable with USB memory stick
- 12 inputs/12 outputs with 5 programmable tooling motions
- Digital input feedback verifies motion
- Flow and leak auto calibration
- RS232 and EtherNet communication ports
- EtherNet/IP™ communication
- QualityWorX CTS DataHub communications
- Barcode unique part identification
- Email of reports, test data, and alerts
- Test result data transmission with definable fields

## Product Enhancements

- Patented Auto Setup
- Quik Test reduces cycle time
- High contrast 24 bit color TFT display
- XY Graphing (pressure, loss, or flow)
- Enhanced differential pressure manifold design
- Low flow manifold (0.7 cc manifold volume)
- Multi-point calibration on electronic regulators
- Choice of Internal or external leak standards



Sentinel I28 leak and flow test instrument



Custom independent CTS 4-station I28 turnkey test system

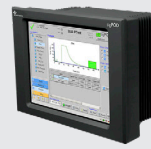
## Our Family of Test Instruments and Products



BlackBelt Pro



3520



sigPOD Controller



CTS Connect®  
Connectors and Seals



BlackBelt



C28



LPC 528



C20



TracerMate CS



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



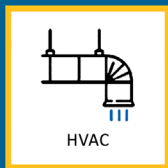
CONSUMER GOODS



MEDICAL



ENERGY



HVAC



OTHER TRANSPORTATION



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