

Sentinel™ C-28 Compact Precision Leak Test Instrument



providing world-class leak test and assembly verification solutions



- Patented Auto Setup
- Auto Calibration
- RS232, Ethernet Communication
- Vivid Color Graphic Display
- Multi-Language Selection
- Selectable Pressure and Flow Units



Sentinel C-28 Compact Precision Leak Test Instrument

The Sentinel C-28 is Cincinnati Test System's latest addition to the technologically advanced Sentinel leak test instrument family. The C-28 utilizes test algorithms processed on an advanced 32-bit system, giving it fast and repeatable results in a more compact package.

CTS has more than 29 years of experience perfecting high-precision, repeatable and reliable instruments to optimize the most demanding leak test applications in any manufacturing environment.

You can trust CTS to provide you with the right solution to fit your specific testing requirement.

Advanced Standard Features

Configurable for the most common leak test applications

- Pressure decay or vacuum decay
- Pressure rate of change
- Occlusion (blockage)
- Optional electronic regulator available

Powerful 32-bit processor & 24-bit A/D converter

- Exceptionally fast, high-resolution test processing
- Data resolution to 0.00001% of transducer full scale

Flexible communication formats

- Ethernet
- RS232

Patented Auto Setup feature for easy programming (Patent # 7,594,424 B2)

- Automatic test optimization based on required test time
- Can handle up to 32 part programs

Large full-color LCD display with multi-language capability

- Operator friendly menus
- Menu selectable multi-language software capability

Instrument calibration

- Easy-to-use Auto Calibration doesn't require instrument to be taken offline
- Ensures accurate results

Environmental drift correction

- Adapts to changing conditions, including temperature

Quik test

- Reduces test time
- Analyzes test results in real time

Self test functions

- Pneumatic leak check, calibration verification
- Transducer zero & span and regulator adjustment

Absolute pressure transducer

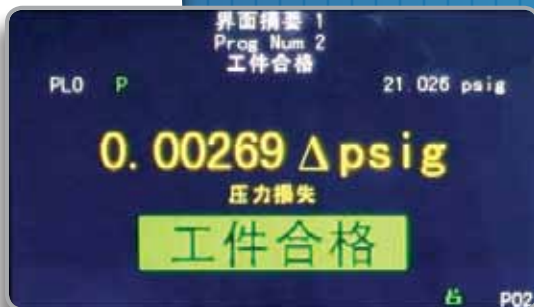
- Monitors all test pressures and displays pressure relative to atmosphere (gauge pressure)

Compact modular design

- Cast aluminum wall mount enclosure
- 162mm high x 213mm wide x 176mm deep
- Manifold mounted valves, transducer, regulator and NIST traceable calibrated leak standard



Simple intuitive operator interface



Multi-language software capability



Flexible communications formats





: Big Performance in a Small Package



Auto Calibration routine tests master production part with internal calibrated leak standard to automatically establish the pressure-loss-over-time (or flow) to leak rate relationship for the part.



Standard Integral 6 Input / 3 Output Digital Interface.

These inputs and outputs are independently programmable within each individual part program.



Optional Pneumatic controls can yield faster, more accurate results.

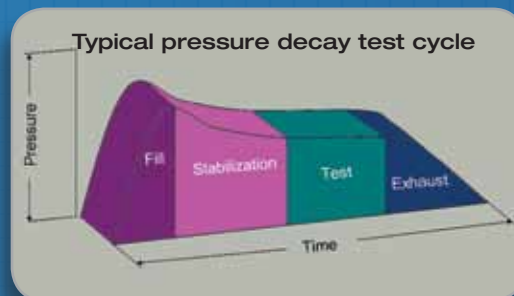
Low Volume Manifold (pictured)
Specially designed for low part volumes (<1 cc),
Low Cv Valves for pressure ranges: 10 psiv to 100 psig

Standard Manifold
Standard Cv valves (1/8" orifice), Internal volume (8 cc) for
pressure ranges: 14.7 psiv to 100 psig,

High Volume/High Pressure Manifold
High flow-high Cv valves (5X flow), Internal volume (12cc) for
pressure ranges: 14.7 psiv to 200 psig, designed to handle
large part volumes.

Unique, time-saving Auto Setup makes setup a snap.

The patented Sentinel C-28 Auto Setup feature makes part set up quick and easy. Just connect your part and push the Auto Setup button... the C-28 does the rest. It requests basic test pressure and leak rate information. It tests the part to analyze its characteristics and optimize the test cycle for the best resolution and test repeatability. This evaluation determines the pre-fill, fill, stabilization, test and exhaust timing that best suits the part within the desired total cycle time.



: technical services



Training

CTS has a dedicated training department to meet your company's training needs. Training classes are offered at regional locations for CTS standard products. CTS custom and standard products training can also be scheduled at your site, or at CTS' main facility.



Application Lab Test

Cincinnati Test Systems offers application and test assistance by our experienced laboratory staff. Lab capabilities include leak testing, function testing, press force monitor testing and data acquisition profiling. Testing customer part samples ensures that our instruments will meet the customer's unique test requirements. Test results are communicated to the customer in a professional test report.



On-Site & 24/7/365 Service

CTS offers expert on-site and remote service by trained specialists who can troubleshoot equipment problems and offer suggestions on improving your daily leak test operations. Our 24/7/365 telephone support is manned by our trained service specialists, not a call center.



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: Sentinel™ leak test instruments and accessories



Sentinel I-24

The Sentinel I-24 is the most technologically advanced single-station leak test instrument configurable for a complete range of pressure and mass flow test types.



Sentinel M-24

The Sentinel M-24 is our advanced pressure decay leak test instrument, featuring expanded capabilities control of up to four independent stations.



CTS Connect™ Air Actuated & Manual Seal Connectors

CTS Connect™ air actuated internal or external connectors effectively seal on the smooth, rough or threaded circular features of a part. The connectors consist of an air-driven internal piston that compresses the seal material against the surface of the part for a leak-free seal. CTS also offers a variety of custom-designed, manually activated seals.

Blackbelt

The Blackbelt is a precision benchtop leak test instrument designed for maximum performance and minimal space requirements. Cincinnati Test Systems' Blackbelt instrument utilizes advanced algorithms derived from over 30 years of proven leak test experience to produce the fast and accurate results required by the most demanding customers.



Sentinel C-20

The Sentinel C-20 is an economical, high-performance, quality pressure decay leak detection instrument with advanced standard features.



Leak Standards

Cincinnati Test Systems Standards Lab produces the highest quality leak standards in the world. The lab follows strict calibration procedures and is accredited by A2LA to the ISO 17025 standard. Calibration certificates issued are traceable to NIST. Flow and leak standards are sized for each application to specific flow and pressure specifications.