



Sentinel C28

Precision Leak Test Instruments



Providing world-class leak test and assembly verification solutions to industries around the globe.

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Precision Leak Test Instruments

For over 30+ years Cincinnati Test Systems has lead the market in the integration of advanced technology and innovative features in standard leak test instrumentation. The multiple technologies and performance offered in our family of Sentinel instruments stand unmatched worldwide over a diversity of production environments.

Our latest addition offers the compact C28 instrument with Absolute or Differential Pressure (DP) technology. Designed with a 32 bit processor and 24 bit A/D technology, the C28 series of instruments have become known for accuracy, speed, and repeatability.

Advanced features of the C28

Available Technologies • Superior performance • Less complex • Global friendly • Low maintenance • Compact

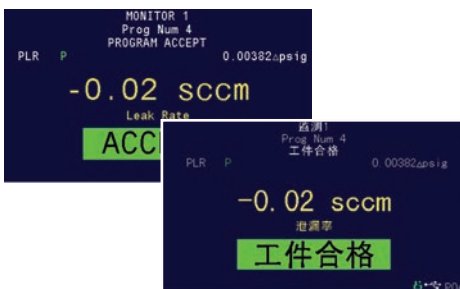


Globally User Friendly

- Language neutral interface
- Automatic voltage selection
- 32 Available part programs
- Menu selectable language including Spanish, Chinese, and Korean

Available Technologies

- Pressure or vacuum decay
- Pressure rate of change
- Occlusion (blockage)
- Differential Pressure



Superior Performance

- 32-bit processor
- 24-bit A/D converter
- High-resolution test results
- Pressure resolution to 0.004%
- Automatic environmental drift compensation
- Advanced Communication – RS232 or Telnet

Low Maintenance

- Long life pneumatic valves
- Internal leak standards
- Self Test Feature



Less Complex

- Auto calibration
- User friendly menus
- Auto Setup – Pressure Decay
- Prewired I/O cables
- Selectable digital inputs/outputs

Smaller - Compact Design

- Space saving enclosure 162mm x 213mm x 176mm
- Panel Mount
- Fully integrated electronics and pneumatics

Standard Integral 6 Input / 3 Output Digital Interface.

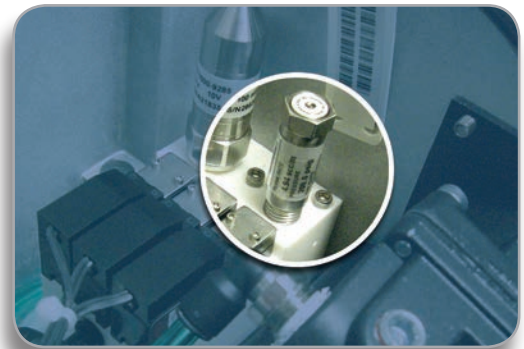
- These inputs and outputs are independently programmable within each individual part program.





C28 DP (Differential Pressure) Features

- Auto Calibration
 - Internally mounted NIST leak standard
 - Part and test volume automatically accounted for by the instrument during calibration
 - Converts pressure loss to volumetric leak rate
- Test Circuit Features
 - DP circuit is monitored by an Absolute transducer on a separate 24-bit analog to digital circuit to protect against leaking valves, preventing potential passing of bad parts.
 - DP sensor is designed utilizing a silicone based strain gage to reduce inherent drift and accuracy issues found with capacitive DP sensors



Auto Calibration characterizes the adiabatic effects and geometric dynamics of the master part along with a NIST traceable leak standard to assure accuracy from zero to the specified leak limit.

C28 WE Pressure Decay Features

- Auto Calibration
 - Internally mounted NIST leak standard
 - Part and test volume automatically accounted for by the instrument during calibration
 - Converts pressure loss to volumetric leak rate
- Standard absolute transducer
 - Eliminates noise from barometric pressure changes
 - All references from absolute zero

Advanced Features

- Data storage for 12,000 test results
- 6 inputs/3 outputs
- Self Test
- Internal NIST leak standard
- Pressure measurement to 0.4% accuracy

Other Sentinel Products



C20 WE



I28



BlackBelt



INDUSTRY LEADER IN PRODUCTION TEST EQUIPMENT

GLOBAL SUPPORT NETWORK

Free 24/7 phone support

Validations +
applications lab

On site service

Training

Full team of application
specialists

Worldwide sales +
service



WORLD CLASS TESTING SOLUTIONS

Standard Products • Custom Design • Integration
Test • Measurement • Calibration • Gas Recovery



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