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

Instrument Features

Multi-Channel/Stations Available:
- Discreet pneumatic circuit for each channel allowing Synchronous or Asynchronous testing
- 1 to 4 independent leak tests
- 1 to 4 Independent flow tests
- Multiple linked tests per port

Test Types Available:
Pressure and Vacuum Testing
- Pressure decay - ΔP
- Pressure decay rate - ΔP/ΔT
- Pressure decay to leak standard
- Occlusion (blockage)
- Pressure verify
- Mass flow
- Mass flow to leak standard
- Ramp to Δ pressure event
- Ramp to input event
- Ramp to proof event

Program Selections and Flexibility:
- 999 Test Programs
- 100,000 selectable tests with up to
   - 100 tests per program
- Pressure, flow, and vacuum test types
- Timers
- Pressure limits
- Reject limits
- Test calibration parameters
- Units of measurement
- Digital I/O
- Tooling control
- Data communication

Touch Screen Interface
- 9" LCD, 800 x 480 color touchscreen

Pneumatic Seal Actuation Available:
- Up to 8 independently actuated pneumatic outputs
- Allow easy use of CTS Connect pneumatic seal devices
- Often eliminates need for PLC tooling control

32-bit Processor & 24-Bit A/D Converter:
- Exceptionally fast, high resolution test processing
- Stable yet extremely responsive pressure/flow measurements

Absolute Pressure Transducers:
- Eliminates test variations from barometric pressure changes
- Test pressure accuracy, 0.05% uncertainty full scale (supplied with calibration certificate)

Pressure Ranges Available:
- Standard ranges: 0.5-14.5 psiv, 0.25-2.5 psiv, 1-30 psig, 1-100 psig, 2-200 psig, 4-400 psig, and 5-500 psig
- Custom ranges over 500 psig

Mass Flow Transducers Available:
- Thermal and Laminar models
- Test air flow accuracy, 0.5% uncertainty full scale (supplied with calibration certificate)

Mass Flow Ranges Available:
- Standard ranges from 0.5 to 3,000 scc/m
- Custom ranges to 250 sl/m

Transducer Verification/Recertification:
- Pressure and flow transducers
- 6-point standard pressure calibration
- 6 point standard flow calibration

Pneumatic Manifolds Available:
- Low volume
- Standard flow
- High flow
- Super high flow
- Internal vacuum generator

Test Ports Available:
- 1, 2, 3, or 4 ports
- 1/8" FNPT, Male or Female Luer
- Other sizes including BSPT available

Leak Standards Available:
- Internal leak standard mounted on the pneumatic manifold, or
- External leak standard quick-disconnect port

Pressure Controls Available:
- Standard high precision manual regulators
- High precision electronic regulators
- High flow, precision manual regulators for mass flow testing
- Ultra precision electronic pressure controllers for mass flow testing

Units of Measure:
- All standard industrial units of measure are easily selectable per program

Self -Test Functions:
- Internal leak detection process
- Test calibration verification

TCP/IP and RS232 Communication:
- 2-Way Telnet communication
- Test result data transmission with definable fields

EtherNet/IP™ Network Communication:
- OVDA Conformant
- Additional 50 Inputs/53 Outputs (digital)
- Function Block Program included
- Real-Time Messaging of test results, errors & I/O Status
- Test Program Selection

USB Ports (3)
- Backup/Restore
- Cloning
- Report storage
- Test result data storage & result synchronization

Automatic Test Calibration
- Easy to perform
- Converts Δ measured value to leak rate
- Permits manual edits if averaging multiple parts is required
- Calibrates to master part

Environmental Drift Correction:
- Automatically maintains calibration accuracy to compensate for changes in environmental conditions including temperature

Quik Test Function:
- Shortens test cycle when it is obvious and imminent the monitored pressure curve will result in a reject or accept
- Analyzes test results in real time
- Provides projected final test results

24 Volt Digital Inputs/Outputs
- 18 User configurable inputs
- 18 User configurable outputs
- Tooling control – up to 18 tooling motions with feedback – often eliminates the need for a PLC

SmartKey™ or Password Security for Unique Users:
- Unique user ID's for over 200 individuals
- Menu selectable permissions for each user
- User identity attached to result data

Help Button:
- On-screen popup help window
- Minimizes dependency on the manual

Data Management & Storage:
- 1,000,000 tests stored on internal memory
- Infinite - Expandable Storage Via USB
- Resettable counters:
- Test Results Including Malfunction
- Data from Last 1000 tests viewable on Display

Status and Test Indicators:
- Onscreen status and color illumination provides clear feedback during and after test
- Eliminates stack lights

Compact Enclosure Design:
- Dimensions:
  16.9" wide x 16.6" height x 10.3 deep

Utility Requirements:
- Electrical: 88-264 VAC, 50/60 Hz
- I/O supply: 24 VDC selectable on board Onboard use - maximum 1 Amp
- External I/O supply selectable and recommended when exceeding 1 Amp use.
- Pneumatic:
  - Pressure Input = 20 psig above maximum test pressure, clean dry compressed air or nitrogen
  - Pilot Input (if required) = 60 psig, clean dry compressed air or nitrogen

Environmental Factors:
- Operating temperature range:
  5°C to 40° C (41°F to 104°F)
- Maximum humidity:
  90% relative humidity, non-condensing
- Maximum operating altitude:
  2,500 meters (8,200 feet)
- Indoor use only, IP20