

AGILITY™

LEAK TESTING SOLUTIONS

THE ESSENTIAL BUILDING BLOCKS FOR A GREAT LEAK TEST SYSTEM.

System integrators and OEMs now have the building blocks to quickly and effectively implement helium leak testing into their assembly line equipment. Our Agility™ Control System, hardware, and tooling are designed to make your job easier, whether your system implements automated part handling or is operator loaded. A true breakthrough in helium leak testing, Agility™ components will change the way you build your production

helium leak test system.

CONTROL SYSTEM

AGILITY™ CONTROL UNIT

- Automated control of vacuum helium leak testing
- ARM microprocessor with serial, Ethernet and up to 104 I/O
- Interface with host PLC as required
- Packaged for DIN rail mount or in dedicated enclosure

AGILITY™ OPERATOR INTERFACE TERMINAL (OIT)

- Color touch screen display, indicator lights and operator buttons all in one package

AGILITY™ SOFTWARE

PROCESSOR SOFTWARE MODULE

- Configurable for multiple hardware and process sequence options
- Test recipes selected by operator or via PLC
- Part tracking, test statistics, and data logging

WINDOWS™ SOFTWARE MODULE

- Enables connectivity of PC or Laptop to Control Unit via Ethernet

TOOLING

OUR EXPERTISE

- Designed for performance and long life
- Attention to details such as ergonomics, seal design, material selection, automation, tooling change-over, and POKA-YOKE



Dual Test Screen



INNOVATIVE CONTROL SYSTEM



HIGH PERFORMANCE HARDWARE



ENGINEERED TOOLING

HARDWARE

HIGH PERFORMANCE COMPONENTS

- Hardware designed and selected for performance, reliability, and maintainability
- Select from Alcatel or Inficon modular mass spectrometer leak detectors
- Compact, high performance valve manifolds to integrate all components
- CalMaster™ calibrated leak standards

CALMASTER™ LEAK STANDARDS



HIGH PERFORMANCE MANIFOLDS



HELIUM LEAK DETECTORS

LACO TECHNOLOGIES

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SPECIFICATIONS

AGILITY™ CONTROL UNIT (ACU)

POWER REQUIREMENTS	24 VDC, 20 Watts
PROCESSOR	200 MHz ARM9 with MMU
I/O CONNECTION/INTERFACE	Plug connector with screw flange
OPERATOR INTERFACE TERMINAL (OIT) CONNECTION/INTERFACE	OIT Enclosure (Option S): 25 pin D-sub, Ethernet RJ45, Touch Screen Display (Option T): Ethernet RJ45
NETWORK COMMUNICATIONS	2 each 10/100 Ethernet Ports (for Touch Screen Display and PC)
DIGITAL INPUTS*	48 total, 24 VDC + Common, 500 V isolation
ANALOG INPUTS*	4, configurable to 0-5 or 0-10 vdc
DIGITAL OUTPUTS*	48 total, 24 VDC + Common, with Surge Suppression
ANALOG OUTPUTS*	4
PLC INTERFACE	Dedicated discrete inputs for remote test start. Dedicated analog and discrete outputs for system and test part status.
PHYSICAL DIMENSIONS	DIN Rail Mount (Option D): 11.5"W x 8.5"H x 6.5"D, NEMA 12 Enclosure (Option E): 20"W x 20"H x 8"D

NOTES: *The actual number of I/O points and ports available for use depends on the configuration options selected and software setup. See I/O list for more details.

AGILITY™ OPERATOR INTERFACE TERMINAL (OIT)

POWER REQUIREMENTS	24 VDC, 5 Watts (Supplied via 25 pin cable from the ACU)
I/O AND POWER INTERFACE	25 pin D-sub connector (12' cable included)
TOUCH SCREEN DISPLAY	5.7" TFT Color, panel mounted
TOUCH SCREEN DISPLAY (TSD) INTERFACE	Ethernet RJ45 (12' cable included)
STATUS INDICATOR LIGHTS AND BUTTONS	Test Part: Pass, Fail; System: Ready, In Cycle, Fault, Start, Abort/Reset, Calibrate, E-stop
ENCLOSURE DIMENSIONS	15.75"W x 17.72"H x 5.91"D
ENCLOSURE MOUNTING	Standard hole pattern on back and bottom (see drawing for details)

AGILITY™ SOFTWARE

PROCESSOR SOFTWARE MODULE

LEAK TEST PROCESS CONTROL	Automated vacuum helium leak test
CONFIGURATION OPTIONS	Single or Dual test, Auto or manual tooling, Helium fill, Leak detector (ASI-20 / LLD-2000), Safety interlocks, Calibration methods, Multiple gross leak test functions, Helium reject modes, Test timers, limits, reject levels, Test initialization inputs
TEST RECIPES	8 unique recipes selectable via operator interface or PLC
PART TRACKING	Part number, Machine operator, Lot number (see Data Logging)
TEST STATISTICS	On-screen: test results, reject codes, cycle time, machine throughput
DATA LOGGING	Test data via Ethernet port (see Windows™ Module below)
GRAPHICAL USER INTERFACE	Test, Calibrate, Statistics, Manual, Setup, and Help screens
PASSWORD PROTECTION	User, Technician, and Configuration access levels

WINDOWS™ SOFTWARE MODULE

PC SYSTEM REQUIREMENTS	Windows 98, 2000, XP, 4mb HD space, 10/100 Ethernet port
GRAPHICAL USER INTERFACE	Test, Calibrate, Statistics, Manual, Setup, and Help screens (same layout as operator interface touch screen display)
DATA LOGGING	.CSV File format, Time & date stamp, Machine operator, Part number, Lot number, Test value (leak rate), Reject / Accept
TEST RECIPES	Configuration file upload, download, and save

HOW TO ORDER

1	2	3
SELECT SINGLE OR DUAL TEST	SELECT OPERATOR INTERFACE OPTION.	SELECT CONTROLLER MOUNTING OPTION.
OPTION 1 Configured for leak testing one part at a time	OPTION S Standard Operator interface, mounted in an enclosure. Includes 12' controller Interface cable.	OPTION E Controller mounted in Nema 12 enclosure.
OPTION 2 Configured for leak testing two parts independently. Requires additional hardware.	OPTION T Color touchscreen display, unmounted OPTION N No operator interface display. Requires customer PC to setup and configure the system.	OPTION D Controller mounted on DIN rail compatible bracket. For mounting in customer enclosure.

MODEL NUMBER



Example: Model ACS-2SE, Dual test with standard operator interface and controller mounted in enclosure.