



Advanced features evolved through our extensive knowledge and experiences



FULL-COLOR TOUCH-SCREEN DISPLAY

All operations can be performed on a touch screen. Color LCD display that is easy to read and understand.



MULTI-LANGUAGE CAPABILITY & QUICK ACCESS

Selectable from English, Japanese, Chinese, Korean, German, Spanish and Portuguese. Jumps to the screen selected from Advanced Settings, System Settings, Comp, System Settings, Settings Backup/Restore and Error Log



WAVEFORM MEASUREMENT DISPLAY

Graphical display of the test pressure and measured differential pressure. Find the optimum pressurization and detection times.



CAL DRIVING VALVE FOR LEAK MASTER (TYPE J) ALC (AUTO LEAK CALIBRATER) (TYPE K)

Convenient calibration tool selectable as an option



AUTOMATIC SETUP FEATURE FOR EASY PROGRAMMING

Leak testing requires a number of settings. Supports initial test parameter programming by determining stage timers.



USB PORT FOR EASY DATA STORAGE

Test results can be automatically copied to a USB Memory after every test. Test parameters and System data backup can be stored as well.



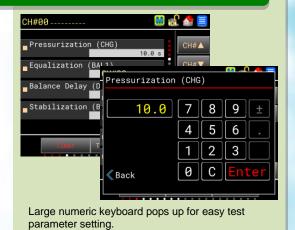
MASTERING PROVIDES HIGHLY ACCURATE TEST RESULTS

Provides faster and more accurate test results by compensating for environmental drifts. Using the Mastering feature, variety of parts can share a Master Chamber as a reference.

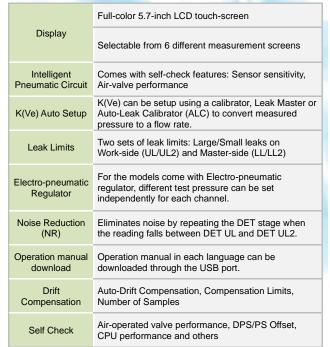
Easy-to-navigate with icons



Settings Menus



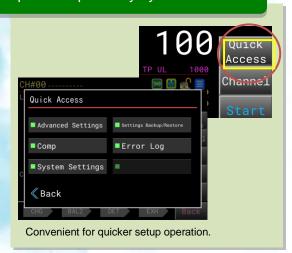
Other Features



Selectable Measurement Screens

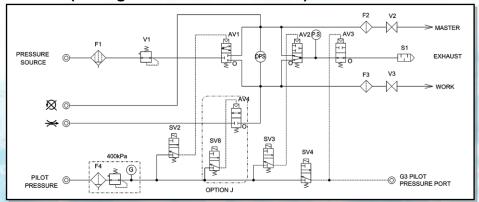


Improved Operability by Quick Access



Sensor Protection	Air-Blow (Intelligent Pneumatic Circuit)	The pneumatic circuit is cleaned at the end of every leak test.
	External Exhaust Valve Ready	Valve is sold separately.
Exhaust Interference Prevention	Exhaust timing will be controlled for the cases where multiple cavities are tested simultaneously.	
Charge Hold	Tester pressurizes the tested part continuously. Used to locate leaks.	
Control I/O Port	Both for NPN-PNP For Phoenix Contact connector, wire connection can be done with a flat-bladed screwdriver.	
Serial Communication	RS-232C: 2 ports (On the front and rear panels) USB: 1 port	
Mastering Setting	Day of Week, Interval, Iteration, Max Idle Time, Consecutive Triggers, Mastering Comp Value, Mastering Limits, Mastering Iterations	
Display/Messages	Error Message, Troubleshooting, I/O Monitor, Channel Title, Counter etc.	
Quick Mounting Brackets	Tester can be mounted/removed with only two screws. Good for mounting the tester in a limited space.	

■ Pneumatic Circuit (Intelligent 2 Pneumatic Circuit)



■ General Specifications

<u>*</u>	Resolution Accuracy Guaranteed Range	0.1 Pa ±1000 Pa	Test Pressure Source	Clean air The source pressure n pressure and the pilot	nust be sufficiently higher than the test pressure.
DPS	Accuracy	±2.5% of rdg ±1 Pa, 50 Pa or less: ±2 Pa		Set by the installed filter regulator for pilot pressure: 400 to 700 kPa	
	Sensor Proof Pressure	5 MPa	Pilot Pressure		
	Test Pressure	kPa, MPa (Non-SI units for use outside Japan: kg/cm², PSI, bar, others)	Port Size	Rc(PT) 1/4 (Test pressure, Work and Master ports) Rc(PT) 1/4 (Pilot pressure)	
Chit		Pa, kPa, mL/s, mL/min, L/min, Pa·m³/s,			
Display Unit	Leak	E-3 Pa·m³/s, Pa/s, Pa/min, *Pa/s, *Pa/min (Non-SI units for use outside Japan: immH ₂ O, mmHg, inH ₂ O, others)	RS-232C 2 ports (D-sub 9 pins)	I/F fixed length ID/F fixed length	Test parameters as well as test results are transmitted.
	Equivalent Internal Volume	mL, L (Non-SI units for use outside Japan: in³, ft³)		T/F fixed length	Only test results are transmitted.
	Leak Display	3 to 5 digits (Floating point), Sampling Rate: 10 times/s		Others	Other formats
	Leak Limit	Up to ±999.9 Pa		Save Data	Judgment, Leak, Compensation value, Test pressure, Channel#, Timers, etc.
Nu	Number of Channels	32 channels (#00 to #31)	USB Port		
	Timers	Up to 999.9 s (Resolution: 0.1 s)		Copy CSV to USB	csv file
	Power Source	100 to 240 VAC ±10% at 50/60 Hz, 80 VA max		'	
An	nbient Temperature	Operation Temp.: 5 to 45°C Storage Temp.: -20 to 60°C	Accessories	Oil mist separator and regulator (Exce Filter regulator for Pilot pressure, Pow Quick mounting brackets, Control I/O	t pressure, Power cable,
	Humidity	80 % RH or less / no dew condensation		Inspection Record, Operation Manual	
	Weight	Approx. 10 kg (Standard model)			

^{*1} Except D4 (Differential Pressure Sensor Range: 10 kPa)

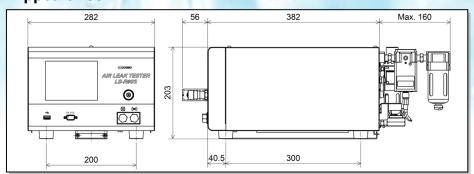
NOTE: Precision Regulator, E/P Regulator, and Power Cable are not CE compliant.

■ Model LS-R902 (A B C.D.E) A, B, D and E in the model notation are mandatory.

Α	Pneumatic Circuit	A1: Intelligent 1 Pneumatic Circuit, A2: Intelligent 2 Pneumatic Circuit, AS01: Micro Volume Circuit, AS1: Small Volume A1 Circuit, C: Secondary Pressure Circuit	
В	Test Pressure	Precision Regulator	M : 50 to 800 kPa, L : 10 to 100 kPa, L02: 5 to 20 kPa, V : -5 to -100 kPa, H20: 2.0 MPa or less ⁻¹ . H49 : 4.9 MPa or less ⁻¹
	Range	E/P Regulator	MR: 50 to 800 kPa, LR: 10 to 95 kPa, VR: -5 to -75 kPa
С	Options	G: External Exhaust Valve Ready ¹² , J: With CAL Driving Valve For Leak Master, K05 : Come with ALC-05, K1 : Come with ALC-1, K4 : Come with ALC-4, K10 : Come with ALC-10, B: Bypass Circuit Ready without Precision Regulator and Filter, B1: Bypass Circuit Ready with Precision Regulator, PV1 : Pressure/Vacuum Pressure Sensor, F1 : Blow Orifice Φ1.2 ¹³ , R1: E/P Regulator Ready (With EP Connector) ¹⁴ , RX02 : Nylon Filter Housing (Filter for the pilot pressure), RX03 : Nylon Filter Housing (Filter for the pilot pressure and test pressure), RX06 : Pilot Pressure Port Comes with Filter Only, RX09 : TCU ports (IN, OUT), RX10 : TCU ports (IN, OUT) + TCU (Temperature Compensation Unit), sensors and cables sold as a set, RX11 : 100 Channels, N3 : CC Link, N5 A: Ethernet/IP, N6 A: PROFINET, D4 : DPS Range: 10 kPa, PX1 : NPT Fittings	
D	Units and Others	UX1: SI units only, UX2: All units (For overseas only), UX3: UL Certification	
E	Power Cable	VA: 125 VAC 3 m, VE: 250 VAC 2 m, VK: 250 VAC 2 m (Only for Chinese customers)	

- *3 Standard specification for Micro Volume Circuit (AS01).
 *4 Selectable for precision regulators.

External Appearance



^{*1} H20 and H49 models come with no regulator.
*2 Standard specification. Not selectable for Secondary Pressure Circuit (C) and for Vacuum (V, VR).

Temperature Compensation*1 (Option) Reduces the setup time by more than 50%. (Compared with conventional testers) Main accessories for Option RX10 Samples the temperatures of the environment, tested parts etc. to derive the optimum Compensation value. Work Temperature Sensor 28.5 ℃ Fixture Temperature Sensor 32.4 ℃ 32.7 30.0 ℃ 29.7 35.6 ℃ 34.6 TCU-900 Temperature sensor extension cable

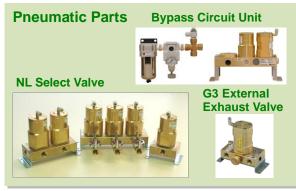


*1 The options "Temperature Compensation" and "Fieldbus" are not CE/UL compliant.

Peripherals for Air Leak Tester









* The contents of this catalog are as of October 2023. The specifications are subject to change without prior notice.

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