Universal Leak Calibrator ULC-101/111 series

■ 性能规格

精 度	2% F.S.	所有型号适用	
流量范围	1ml/min,10ml/min,100ml/min	ULC - 101(选择一种流量范围) ULC - 111(包括所有流量范围)	
流量状态显示	标准状态 20 1Atm 正常状态 0 1Atm	根据型号选择 根据应用情况选择	
流量单位	ml	所有型号适用	
时间单位	min	所有型号适用	
应用介质	空气 氦气 二氧化碳 氦气	所有型号适用 根据应用情况选择 其他介质的转换率	
大气压力单位	hPa PSI mbr	所有型号适用根据应用情况选择	
温度单位	.K	所有型号适用根据应用情况选择	
使用压力范围	10kpa - 700kpa	所有型号适用	
使用温度范围	0-40	所有型号适用	
显示器	LCD显示,黑白显示 (绿色背光,128x64)	所有型号适用	
流量显示	4位数字	所有型号适用	
电 源	AC100V - AC240C(50/60HZ) 变压器:DC12V 1A 主体:电池	所有型号适用	
电 池	4节AA(LR6)碱性电池,连续使 用8小时	所有型号适用	

Accuracy	2%F.S.	Common to All Models	
Flow Range	1ml/ min	Select	
	10ml/ min	ULC-101 (Select One Range)	
	100ml/ min	ULC-111 (All Included)	
Flow Status Indication	S: Standard Condition 20°C 1 Atm	Depending on Model	
	N: Normal Condition 0°C 1 Atm	Depending on Application	
Unit (Flow Rate)	ml	Common to All Models	
Unit (Time)	min	Common to All Models	
Applicable Medium	Air·He·C02·N2	Common to All Models	
		Depending on Application	
		Traceablility for AIR only	
		Converted Rate for Other Medium	
Unit (Pressure)	hPa•PSI•mbr	Common to All Models	
		Depending on Application	
Unit (Temperature)	℃·K	Common to All Models	
		Depending on Application	
Applicable Pressure Range	10kPa~700kPa	Common to All Models	
Applicable Temp. Range	0~40°C	Common to All Models	
Indication	LCD w/ No Back Light	Common to All Models	
	Black and White (Background: Green) (128X64 Characters)		
	(120/10 / 0/10/10/10/0		
Flow Rate Indication	Full 4 digits	Common to All Models	
Power Source	AC100V~AC240V (50Hz/ 60Hz)	Common to All Models	
	AC Adaptor: DC12V 1A		
	Main Body:Battery		
Battery	Ni-MH battery (AA Size) 4 units parallel	Common to All Models	
	Max Continuance Use:8 hours		

■功能规格

型 号	流量范围	精度确认用层流管	
ULC-101	可从1ml/min、10ml/min、 100ml/min中选择一种流量 只能使用选择的流量	提供满足所选流量范围的确认用层流管	
ULC-111	1ml/min、10ml/min、100ml/min3种 流量都可使用	提供3种流量中的一种或者全部流量 的确认用层流管	

■ Function Specifications

Model	Flow Range	Accuracy Verification Laminar	
ULC-101 Select from 1ml/ min, 10ml/ min, 100ml/ min. Able to Operate only in Selected Flow Range		A laminar with full scale of the selected flow rate will be supplied.	
Able to Operate at 3 Different Flow Rates		A laminar element with one selected flow rate or all three flow rates will be supplied. (Optional Verification Laminar)	

附件

型号/No	产品名称 / Product Name	
1	流量调整装置/Flow Regulating Unit	1/1 se数量/Quantity
2	流量调节阀/Flow Valve Unit	1 / 1 set
3	连接件/Hose Connection	1 / 1 unit
4	校正接口/Calibration Joint	1 / 1 unit
5	层流管部件/Laminar Flow Element	1或3 / 1 or 3 sets

Accessory Classifications

型号/No	品名/Product Name	付属数量/Quantity
6	密封盖/Seal Cap	1/1 unit
7	聚氨乙酯透明管/Clear Poly-Urethane Tubing	70cm/70cm
8	变压器/AC Adaptor	1/1 set
9	AA(LR6)碱性电池/ Battery(Ni-MH Battery: AA Size)	4/4 units
10	包装箱 (木制)/Wood Carry Case	1/1 set

●气密检漏仪

●数字压力表

● 流量计 ● 自动压力、流量控制器

●密封性能检测专用设备

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C-FB-0ULC101-X-03 Printed in China

■ Performance Specification



Universal Leak Calibrator Variable Leak Master

通用型泄漏校正器 可调泄漏基准

ULC-101 系列 Series

用来确认检测仪器精度的校正器 **Useful Tool for Checking Tester Accuracy**

压力校准点可调节,适用范围广 variable pressure setting point with a wide adaptability range

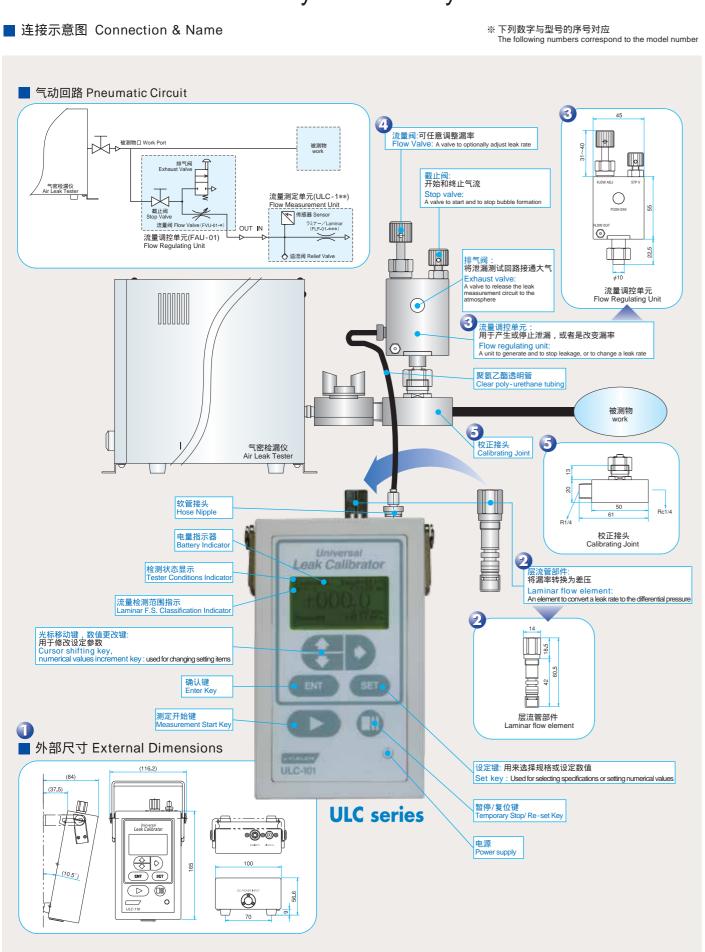
使用新型流量阀,可设定任意漏率 newly developed flow valve unit freely creates any discretional

机身小巧,可用电池,操作简单



使用精密流量阀,可设定任意所需漏率机身小巧,可用电池,操作简单

Precision flow valve freely creates any desirable leak rate compact body and battery system allow easy operation at anywhere



■ 流量调控单元选择标准 / Flow Regulating Unit Selection Criteria

颜 色	调整范围	标准
红色	区域B+ 区域C (流量可以调整到零)	用于0到区域B之间的流量范围
银色	区域A+区域B(不能调整到区域C,或区域C以下范围)	用于区域A但不用于 <mark>区域C</mark>

流量调控单元根据颜色不同分为两种:红色为标准型,银色为可选型。

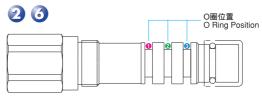
每个单元可调控的流量范围如右图所示

Unit Color	Adjustment Range	Criteria	
Red	Graph B & C (able to adjust to zero flow)	When used for the flow rate between zero to Graph B area	
Graph A & B (unable to adjust Graph C and flow rate below)		Use for Graph A area but not used for Graph C area	

There are two types of flow regulating unit distinguished by red (Standard) and silver colors (Option)

Each unit's flow regulating range is indicated in the graph on the right:

■ 层流管分类 / Laminar Classification



Laminar No.	O Ring Position	Laminar F.S. Flow Rate	Laminar No.	O Ring Position	Laminar F.S. Flow Rate
1	1	1ml/ min	1	1 3	1ml/ min
2	2	10ml/ min	2	2 3	10ml/ min
3	002	100ml/ min	3	0 2 3	100ml/ min

- ●通过与层流管相连接的O型圈的位置,ULC主机可以自动读取并显示压力范围和满度值
- ●组1标明了常规用层流管的设置,组2标明了精度确认用层流管的设置,如果客户同时订购ULC本体和精度确认用层流管,那么厂商将会对其进行默认设置。如果客户为ULC本体配置一个新的精度确认用层流管,那么就需要根据新的层流管重新修订ULC的设置。
- ●组号设置与满度值参考上面的表
- ●上面列出了每个分组编号和对应的O圈位置
- ■型 号/Model Number

ULC-0-9-9-9-6

1 主 体 ∕ Main Body Category

111	止压10~700kPa ,	1ml, 10ml, 100ml标准式样	
Number	Specification	Re	emarks
101	1Flow Range	Select from 1ml/min	ı、10ml/min、100ml/min

Laminar elements for 3 different flow rates(1ml 3Flow Range /min、10ml/min、100ml/min) are equipped as

101 正压10~700kPa,流量量程1种专用 1ml, 10ml, 100ml根据1种选择

2层流管部件/Laminar Flow Element

内部容积为0.1ml

内部容积为2ml

Silver

Number

2

4流量调型号

Number 0

ULC型号	标号	流量部件(ml/min)	备注	
	1	1	可从1ml/min.10ml/min.	
101	10	10	100ml/min中选择	
	100	100		
111	0	1、10、100	标准式样	
ULC Cat.	C Cat. Number Laminar Eleme		Remarks	
	1	1	Select from 1ml/ min,	
101	10	10	10ml/ min,100ml/ min	
101	100	100	101111/111111,1001111/111111	
111	0	1,10,100	Standard	
③流量调整装置 ∕ Flow Regulating Unit				

Internal Volume 0.1ml Not yet released		Not vet released	5	1+100	可选
		6	10+100	可选	
Internal Volume 2ml Standard		7	1+10+100	可选	
田士徳 /61-			,		
周节阀/Flo	w valve		Number	Laminar Range (ml/ min)	Remarks
颜色 类别		备注	0	N/A	Standard
N/A 可选		1	1	Option	
红色 小流量		标准	2	10	Option
银色 中流量		可选	3	100	Option
红色+银色 小流量+中流量 可选		可选	4	1+10	Option
Octor Demonstra		5	1+100	Option	
Color Category Rer		Remarks		40 1 400	0 11

注: 以上配件可以单独订购

1+10+100

Option

■包装箱/Wood Carry Case



●用于本机和附件的包装。

Minute Flow

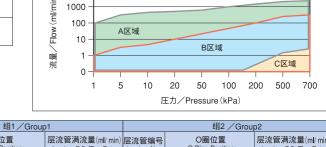
Red+Silver Minute Flow+Middle Flow

Middle Flow

For the unit body and options

46 40 13 27 16

流量阀组件/Flow Valve Unit
流量调控元件特性/Flow Regulating Unit Characteristics



- The ULC body reads and indicates the group classifications and full scale values automatically based
 on the position of O ring that is connected to the laminar
 Group-1 contains the setting of the routine use laminar and group-2 contains the setting of the
 accuracy verification laminar. If accuracy verification laminar is ordered with ULC main unit, the
- Group-1 contains the setting of the routine use laminar and group-2 contains the setting of the accuracy verification laminar. If accuracy verification laminar is ordered with ULC main unit, the manufacturer will grogram its setting as default setting. When additionally ordering a verification laminar for an existing ULC unit, it is necessary to modify the settings to correspond with the new laminar figure details.
- Group settings and full scale values are indicated as above

特殊规格

预计销售中

标准式样

Remarks
Special Specification

Standard

Option

Option

- Each group classification number and O ring position is listed above

	III II I/4 Out no I/4	1/小/圧工/パ干
2	In R 1/8 Out Rc 1/8	可选
Number	Size	Remarks
0	N/A	Option
1	In R 1/4 Out Rc 1/4	Standard
2	In R 1/8 Out Rc 1/8	Option

● 确认用层流管 / Verification Laminar 型号 | 范围 (ml/min) | 备注

0	不附带	标准式样
1	1	可选
2	10	可选
3	100	可选
4	1+10	可选
5	1+100	可选
6	10+100	可选
7	1+10+100	可选