

# Pressure Calibration Products

Pressure Sensor

Pressure Balance

Portable Pressure Generator / Controller

Bench Type Pressure Generator / Controller

Pressure Calibration Accessories

Test Station (Multi Test Bench)



# LPC-S

Portable Semi-Automatic Pressure Generator / Controller

# LPC-S Portable Semi-Automatic Pressure Generation Series

## LPC-S Series

© The new **LPC-S** series dramatically improves the performance required by on-site calibrations. Application of Semi-automatic pressure generation technology. With a compact design that takes care of users, it shows the ability to handle tasks that have never been done before with powerful yet convenient movements.

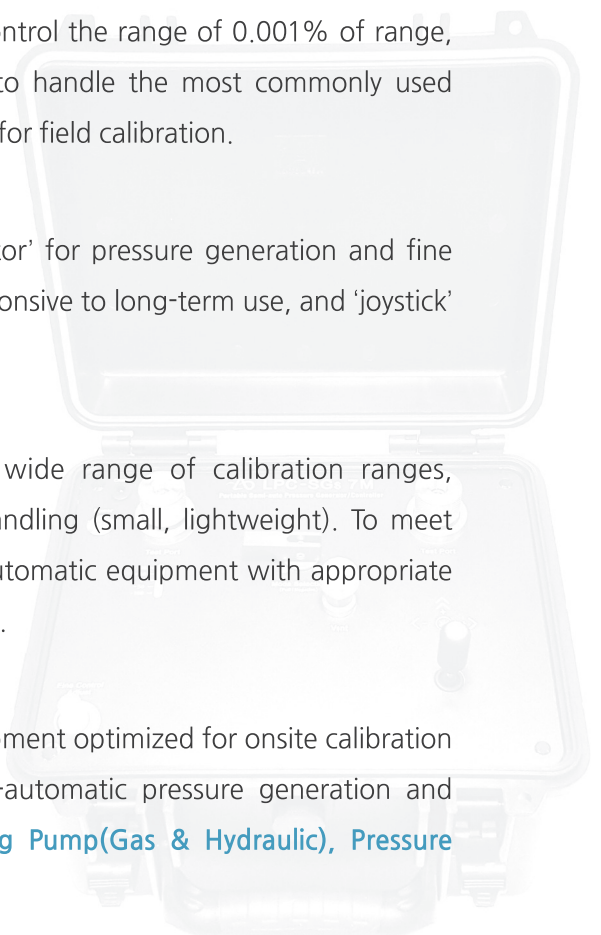
## LPC-S Series

© The **LPC-S** is the most optimised pressure generation and control equipment for on-site calibration, and has the exceptional ability to control the range of pressure from vacuum (-90%) to 100 MPa semi-automatically and control the range of 0.001% of range, especially in the micro-adjustment area, so it is designed to handle the most commonly used digital pressure system's effective performance as a standard for field calibration.

Two mediums are used by Gas & Hydraulic, 'strong motor' for pressure generation and fine control, 'large-capacity rechargeable battery' that can be responsive to long-term use, and 'joystick' simplification of operation.

Good on-site calibration equipment, is subject to a wide range of calibration ranges, precision/accuracy, quickness, compatibility, and ease of handling (small, lightweight). To meet these conditions, you've experienced that manual or semi-automatic equipment with appropriate technology is more efficient than 'full automation equipment'.

To meet this demand, Laon worked hard to produce equipment optimized for onsite calibration in pressure field and finally completed the portable semi-automatic pressure generation and regulator **LPC-S** series with its own **[Motor Drive, Priming Pump(Gas & Hydraulic), Pressure Control]** technology.





LPC-SHs



LPC-SGs

## LPC-S Laon Pressure Balance ◎ Features of various LPC-S

### Easy and convenient pressure generation and fine control

Unlike conventional manual hand pumps, the wide range of pressure ranges from vacuum (-90%) to 100MPa allow easy and fast pressure control by dividing the pressure into pressure source and precision control units, and have precise pressure control capability to handle the effective resolution of the 0.025% digital pressure system at all possible ranges.



#### ◎ Joystick Operating

Only one joystick operation allows both pressure generation and fine control. The joystick consists of two-axis, four-way, and one-button switch, which all of its movements complement the disadvantages of manual complex and difficult operation, making it easier to experiment and test faster.



#### ◎ Pressure Controller Piston Position Marking and Limit Functions

Visualization of the pressure regulating piston position for fine control allows the piston to be positioned while in use, providing a 'limit function' that automatically stops when the piston position reaches each max/min to prevent damage to the equipment.



#### ◎ Pressure port with check valve

Apply a check valve to the inside of the pressure port to prevent the internal medium from leaking without the need for a separate plug.

#### ◎ Large capacity rechargeable battery that can be used for a long time

We have applied a large-capacity Li-ion battery to perform enough calibration work with only one charge.

## SPECIFICATION

	LPC-SHs 100M	LPC-SGs 10M	LPC-SGs 21M
Pressure Generator/Control Range	0 to 100 MPa g	Vacuum(-90%) to 10 MPa g	0 to 21 MPa g
Medium	Oil	Gas(air)	
Priming Pump Output	Max: 5 MPa	Vacuum(-90%) to 10 MPa g	0 to 21 MPa g
Vent(Drain)	Manual Needle Valve		
Volume Controller Piston Stroke	20 mm (+/- 50 %)		
Fine Control ( Control Resolution) <sup>1)</sup>	< 0.001 % of Range (F.S of Reference Gauge)		
Oil Tank Volume	700 cc	—	
Test Port Connection <sup>2)</sup>	2 - Port ( PF 1/4 Female ) / Normal Close - Check Valve type		
Working Capacity <sup>3)</sup>  (@ One-time Charge)	>200 ea/ 0 to 50 MPa	>200 ea/ 0 to 2 MPa	>150 ea/ 0 to 4 MPa
	>120 ea/ 0 to 70 MPa	>150 ea/ 0 to 4 MPa	>80 ea/ 0 to 10 MPa
	>80 ea/ 0 to 100 MPa	>80 ea/ 0 to 10 MPa	>40 ea/ 0 to 21 MPa
	Testing Conditions Reference: General Digital Gauge, DUT : ø100 Analog Gauge(Bourdon's tube type)		
Power	Rechargeable Li-Ion Battery (included)		
Recharge Time	~ 4 hour		
External power	110/220 VA.C. Power Adaptor (included)		
Dimension	320W × 280D × 215H (mm)		
Weight	≒ 8.5 kg	≒ 8 kg	≒ 8.5 kg
Warranty	12 Months		
Accessory	Adaptor Set (PF 1/4 Male to PT/NPT/PF 1/4 Female) × 2 ea / Total 6 ea		
	Operating Oil 1 liter / ISO VG22	—	

※ 1),3) it may vary depending on the user's skill and around environment.

※ 2) You can change the test specifications when ordering.

※ Product specifications may be changed without notice, for example, due to performance improvements.

Options	
1	Test Gauge : User Select (Pressure Range & Accuracy)
2	Test Hose : High Pressure Flexible Tube (Max. 63 MPa)
3	Test Adaptor : (PF 1/4 Male to PT/NPT/PF 1/8, 1/4, 3/8, 1/2 Female) / Total : 12 ea



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