

High Speed Performance

- **Pressure Ranges:**
0 to 1400 bar
- **Control Range:** From
1% to 100% FS.
- **Medium:** Oil, Water...
- **Stability:** 0,05% FS
- **Achieves required pressure value in 1-3 seconds**
- **for O₂ applications**
- **Operation through manual keypad or communication port**
- **Option: RS232 Communication Port**
- **Special configurations are available at customer request**

DH-Budenberg has been manufacturing calibration equipment to industrystandards for over 150 years and is renowned worldwide for the precision, stability and robustness of its equipment. The LC2 offers a quick and simple calibration solution; it sits neatly with the GPC/GPS PC range of automatic controllers. A combination of easily understood menus, clean and highly visual control panel makes it easy to operate and user friendly.



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ACCREDITATIONS
N° 2 - 1033
N° 2 - 1129
PRESSION ET MASSE



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Series LC2-H



ext. Control Panel

Hydraulic Pressure-Controller

The LC2 series has been specially developed for service in a robust environment. The modular format makes this unit suitable for inclusion into almost any system. The use of advanced, modern materials, combined with ease of operation, makes the LC2 particularly suitable for the harsher industrial and production environment. The key operational features are its ability to quickly and easily calibrate gauges and pressure sensors at the touch of a button and without complicated software menus or system set up.

Features:

- **Manual Operation:** Fine tuning of the required set-point value possible through the control wheel.
- Button operation for rapid pressure build in 10% and 25% steps ("other incremental pressure "steps" available as an option).
- **PC Control:** Through the RS232 a 'P' control instruction may be given for building and maintaining pressure. The actual pressure is permanently displayed. A simple and flexible software is available to provide real time management and recording of data.

Model LC2

The unit is designed especially for the calibration of pressure sensors and gauges in large quantities. The easy, manual operation and the extreme speed at which it reaches the required pressure value reduces the time of calibration to just a few seconds. The system can generate a stable hydraulic pressure to 1370 bar in seconds.

Operation is through the unit's tuning wheel (with fine/coarse facility) and the buttons on the front control panel, which can be set in increments of 10% or 25%.

The 100% value button, as with other % step buttons, can be fine-tuned in the calibration process with the help of control wheel.

Up to three independent pressure ranges can be integrated in the unit. Each can be completely different. Selection of the desired range is through the external control panel or the optional RS232 port.

LCD Display

A five digit LCD display module with internal pressure reference is available. The display accuracy is 0.1%. The unit constantly displays the active pressure range selected.

Interface Rs232

An integrated RS232 port allows for the input of selected pressure and the permanent display of the pressure value.

Pressure Generation:

The hydro pneumatic module generates, controls and transmits pressure to the instruments under test. Generation of pressure involves the use of an actuator controlled by electro valves. Sensors measure continuously the value of the pressure in the system so as to be able to adapt actions according to the parameters set by the users. The various pressure connections are found on the back of the LC2, including a connection intended for receiving the supply of compressed air necessary for the operation of the electrovalves. The pressureless fluid tank is outside of the case and can be filled during operation.

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Technical Specifications

	Ranges
The pressure generation and external plastic tank (unpressurized) for the medium is included.	0,3 to 35 bar
	0,3 to 60
	0,7 to 100 bar
	1 to 200 bar
	1,7 to 300 bar
	3,5 to 400
	15 to 650 bar
	20 to 1000 bar
	35 to 1370 bar
Active pressure range	10% to 100% FS
Ranges	Choice of 3 (max) ranges
Stability	0,15% FS
Accuracy of Reading	0,1% FS; LCD-Display (5-digit)
Hysteresis %-Key´s	0,30%
Communication Port	RS232
Medium	Water/Glycerin or Oil (demineralised water: extra price)
Keyboard/Display	external control panel and LCD Display
Auxiliary Pressure	air pressure < 10 bar
Working Pressure	Pressure Generation with Tank (unpressurized) for the Medium
Operational Temperature	15°C to max. 45°C
Power Rating	115 - 230 V AC, 50 - 60 Hz



Operational Example:

The gauge pressure value is installed via the unit or through the PC.

- The value table will then display the actual values as directed by the LC2.
- The download of the data is at the press of a button.
- The active 'cursor' jumps automatically to the next display position.
- The table is suitable for use with Word or Excel protocol.
- The software package available is flexible, fast and user friendly.
- It offers control, instant data display including actual readings and has the ability to store, document and certify.

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