MPC-L

Very Low Pressure Calibrator

- Field and laboratory calibration of the differential and very low pressure gauge
- Designed less affected by environmental temperature bellows-separated type's very low pressure controller
- Satisfied with large volume UUT calibration
- Long battery life for long-term field calibration
- Included various accessories for pressure calibration

MPC-L equipped PDR1000 manufactured by the PDK as the very low and differential pressure standard. MPC-L provides the best performance for calibration of very low and differential pressures from 1 mbar to up to 350 mbar in field and laboratory based on unique pressure generation and control functions.
In addition, the PDR1000, which is a very low and differential pressure standard, can be easily replaced in laboratory and field to meet the scope of the device being calibrated, can cover almost all of the very low and differential pressure, providing maximum effectiveness at a low cost. Save time by performing work on the micro pressure gauge, very low pressure switch, and safety valve and simplifying maintenance and calibration.
With 0.05% accuracy, 5 digit, pressure unit conversion, and various functions, quick and precision calibration is possible without external power in the laboratory or any location.

- Highly stable pressure controller
- Durable material used without long-term failure
- Range : ±1 mbar to up to 350 mbar d
- Accuracy : ±0.05% F.S (-10 to 50 ℃)
- Convenient to read and large 5-digit display
- Quick and easy to change the 10 of pressure units

Using bellows that separated from external case to reduce the effects of environmental temperature changed. Also, the failure rate is significantly low due to its high durability.

- Peak function
- External Hold function
- Min/Max function
- Alarm electronic contact function
- Pressure switch test function (NO/NC Cable option)
- Data logging function
- Auto-Off function
- RS232 Communication (Default 19200 bps set)
- Calibration function (Zero, Span)
- Analog output function (Use external power)
- Backlight On/Off
- Auto-Zero function
- Available to use external power (Power supply adaptor option)
- Indicate Overpressure function

01 Specification

Pressure Range	-1 mbar ~ 1 mbar ... -350 mbar ~ 350 mbar (Differential) / 0 Pa ~ 0.35 mbar ... 0 kPa ~ 350 mbar (Differential)
Accuracy	±0.05% F.S (Included Nonlinearity, Hysteresis, Repeatability, errors for -10 ~ 50 ℃ Temperature range)
Over Pressure limit	500 % of full scale
Bust Pressure	Over 500 % of full scale
Pressure Unit	mbar, bar, kPa, MPa, kgf/cm^2, psi, inHg, inH_2O, mmH_2O, mmHg
Workable Temperature Range	-20 ~ 70 ℃
Storage Temperature Range	-30 ~ 80 ℃
Temperature Compensated Range	-10 ~ 50 ℃
RS232 Communication	Provided Commands in manual, Available to use private communication cable (Option)
Power Requirement	AA Alkaline battery 3 ea, External power supply(Option), Hours of battery use approximately 1000 hours
Media of Use	Gas
Display	5 Digits, Backlight On/Off, Auto Off
Display Speed	3 times / Second (10 times automatic change if use Peak function)
Analog Output	1 - 5 VDC (Must use external power supply), 0.1% Accuracy (Option : 4-20mA , 0-5VDC , 0-10VDC)
Pressure Port	1/4" NPT 2ea
Data Logging	1 time / 1, 3, 5, 30, 60 second, Store Max 3000 data
Size	Dia. 165 mm W × 320 mm D × 230 mm H
Weight	2.8 kg

Carrying Case

UUT Stand

02 Option

- Additional PDR1000 · External Power Adaptor & Multifunctional Cable
- Accessories for very low and differential pressure calibration
- Carrying Case · UUT Stand

03 Order Information

Model(MPC-L-Range) / Description(Low Pressure Calibrator) Ex) MPC-L-±0.1K ⟶ Range ±1 mbar

Differential Pressure

Part No.	Pressure Range		Accuracy	Media	Burst Pressure
	SI Unit	mbar	of Full Scale		
±0.1KD	±100 Pa	±1 mbar	0.05 %	gas	200 times
±0.25KD	±250 Pa	±2.5 mbar	0.05 %	gas	100 times
±1KD	±1 kPa	±10 mbar	0.05 %	gas	50 times
±2.5KD	±2.5 kPa	±25 mbar	0.05 %	gas	30 times
±7.5KD	±7.5 kPa	±75 mbar	0.05 %	gas	15 times
±15KD	±15 kPa	±150 mbar	0.05 %	gas	15 times
±35KD	±35 kPa	±350 mbar	0.05 %	gas	5 times
0.1KD	100 Pa	1 mbar	0.05 %	gas	200 times
0.25KD	250 Pa	2.5 mbar	0.05 %	gas	100 times
1KD	1 kPa	10 mbar	0.05 %	gas	50 times
2.5KD	2.5 kPa	25 mbar	0.05 %	gas	30 times
7.5KD	7.5 kPa	75 mbar	0.05 %	gas	15 times
15KD	15 kPa	150 mbar	0.05 %	gas	15 times
35KD	35 kPa	350 mbar	0.05 %	gas	5 times