

**Main specifications**

▼ **Dimension**  
114 x 39  
Length:180mm

▼ **Pressure connection**  
1/2" PT  
Material: SS316

▼ **Pressure type**  
Gauge pressure /  
Differential pressure /  
Compound pressure

▼ **Pressure range**  
Gauge pressure:  
Min. :-100kPa  
Max.: 250MPa  
Differential pressure:  
Min.: 60Pa  
Max: 10kPa  
Compound pressure:  
-100...0 to 250 kPa

▼ **Applicable media**  
< 250 kPa:  
Pure, non-corrosive gas  
> 250 kPa:  
Liquid and gas that compatible  
with SS 316

▼ **Ambient temperature**  
-20 to 70°C

▼ **Storage temperature**  
-40 to 85°C

▼ **Fluid temperature**  
-10°C to +50°C

▼ **Relative humidity**  
<95%RH

▼ **Atmospheric pressure**  
860...1060 mbar

**Other specifications**

▼ **Body material**  
Aluminum die casting

▼ **Screen display**  
6-digit LCD  
Backlight on/off  
Reset to zero function

▼ **Pressure unit (Switchable)**  
mmH<sub>2</sub>O, mmHg, inH<sub>2</sub>O, Pa, kPa,  
MPa, psi, bar, mbar

▼ **Communication protocol**  
RS232  
(Option: USB to RS232 converter)

▼ **Power supply**  
Rechargeable lithium battery or  
specialized power adapter  
Battery life: about 100hrs  
Charging period: 3hrs

▼ **Current measurement**  
25.0000mA  
Accuracy:  
±(0.02Readings+0.003%F.S.)

▼ **Voltage measurement**  
25.0000V  
Accuracy:  
±(0.02Readings+0.003%F.S.)

▼ **Switch measurement**  
Makes/Breaks  
Voltage range: 1~12V

▼ **Power output**  
Range: DC24V±0.5V  
Maximum current 50mA  
Overcurrent protection 120mA

▼ **Compensated temperature**  
0°C to 50°C (standard)

▼ **Weight**  
0.6kg

**Intelligent pressure calibrator**

**Model: IPC-801**

**Introduction**

IPC-801 intelligent pressure calibrator features high accuracy in pressure, voltage and current measurement. IPC-801 is suitable in calibrate general/ precision pressure gauge, pressure and differential transmitter, pressure adjustment valve and pressure switch.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

**Features**

- High accuracy in pressure, voltage and current measurement
- In-built a pressure transmitter
- Data record/saving and debug function
- Nine switchable pressure units
- Two point field calibration for easy operation
- HART communication (option)

**How to order**

IPC-801 Intelligent pressure calibrator										
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item	
Custom	Pressure range	Please refer to pressure measurement and accuracy table and select corresponding code								
4P	Pressure connection	4P	1/2" PT	O	Others (please specify)	-	-	-	-	
/B	Other requests	/A	Third party notarized document							
		/B	Inspection report (issued by Re-Atlantis)							
		/C	Tag							
		/D	Inspection report (issued by Re-Atlantis)							
		/E	Fitting thread adaptors - to adapt the other kind of thread							
		/F	Explosion-proof type							
		/G	HART communication							
		/H	Narrow temperature compensation range (for higher accuracy)							

Order example: IPC-801 - P12 - 4P - /B

**Pressure measurement and accuracy table**

Code	Pressure range	Accuracy (@20±5°C)	Accuracy (0 to 50°C)	Accuracy (0 to 50°C) (Absolute pressure)
P1	-100…0kPa	0.02, G	0.05, G	—
P2	0…16kPa	—	0.05, G	—
P3	0…25kPa	—	0.05, G	—
P4	0…40kPa	0.02, G	0.05, G	—
P5	0…60kPa	0.02, G	0.05, G	0.1, A
P6	0…100kPa	0.02, G	0.05, G	0.1, A
P7	0…160kPa	0.02, G	0.05, G	0.05, A
P8	0…250kPa	0.02, G	0.05, G	0.05, A
P9	0…400kPa	0.02, G	0.05, G	0.05, A
P10	0…600kPa	0.02, G	0.05, G	0.05, A
P11	0…1MPa	0.02, G	0.05, G	0.05, A
P12	0…1.6MPa	0.02, G	0.05, G	0.05, A
P13	0…2.5MPa	0.02, G	0.05, G	0.05, A
P14	0…4MPa	0.02, G	0.05, G	0.05, A
P15	0…6MPa	0.02, G	0.05, G	0.05, A
P16	0…10MPa	0.02, G	0.05, SG	0.05, A
P17	0…16MPa	0.02, G	0.05, SG	0.05, A
P18	0…25MPa	0.02, G	0.05, SG	0.05, A
P19	0…40MPa	0.02, G	0.05, SG	0.05, A
P20	0…60MPa	0.02, G	0.05, SG	0.05, A
P21	0…100MPa	—	0.1/0.2, SG	—
P22	0…160MPa	—	0.1/0.2, SG	—
P23	0…250MPa	—	0.1/0.2, SG	—

Note: G=Gauge pressure ; SG= Sealed gauge pressure A= Absolute pressure

**Differential pressure measurement and accuracy table**

Code	Differential pressure range	Accuracy (@20±5°C)	Accuracy (0 to 50°C)
D1	0…60Pa	1.6	—
D2	0…250Pa	0.5	—
D3	0…1kPa	0.1	—
D4	0…2kPa	—	0.05
D5	0…5kPa	—	0.05
D6	0…10kPa	—	0.05

**Compound pressure measurement and accuracy table**

Code	Differential pressure range	Accuracy (@20±5°C)	Accuracy (0 to 50°C)
CP1	±60Pa, D	1.6	—
CP2	±250Pa, D	0.5	—
CP3	±1kPa, D	0.1	—
CP4	±2kPa, D	—	0.05
CP5	±5kPa, D	—	0.05
CP6	±10kPa, D	—	0.05
CP7	±16kPa, G	—	0.05
CP8	±25kPa, G	—	0.05
CP9	±40kPa, G	0.02	0.05
CP10	±60kPa, G	0.02	0.05
CP11	±100kPa, G	0.02	0.05
CP12	-100…0 to 160kPa	0.02	0.05
CP13	-100…0 to 250kPa	0.02	0.05

Note: G=Gauge pressure D=Differential pressure