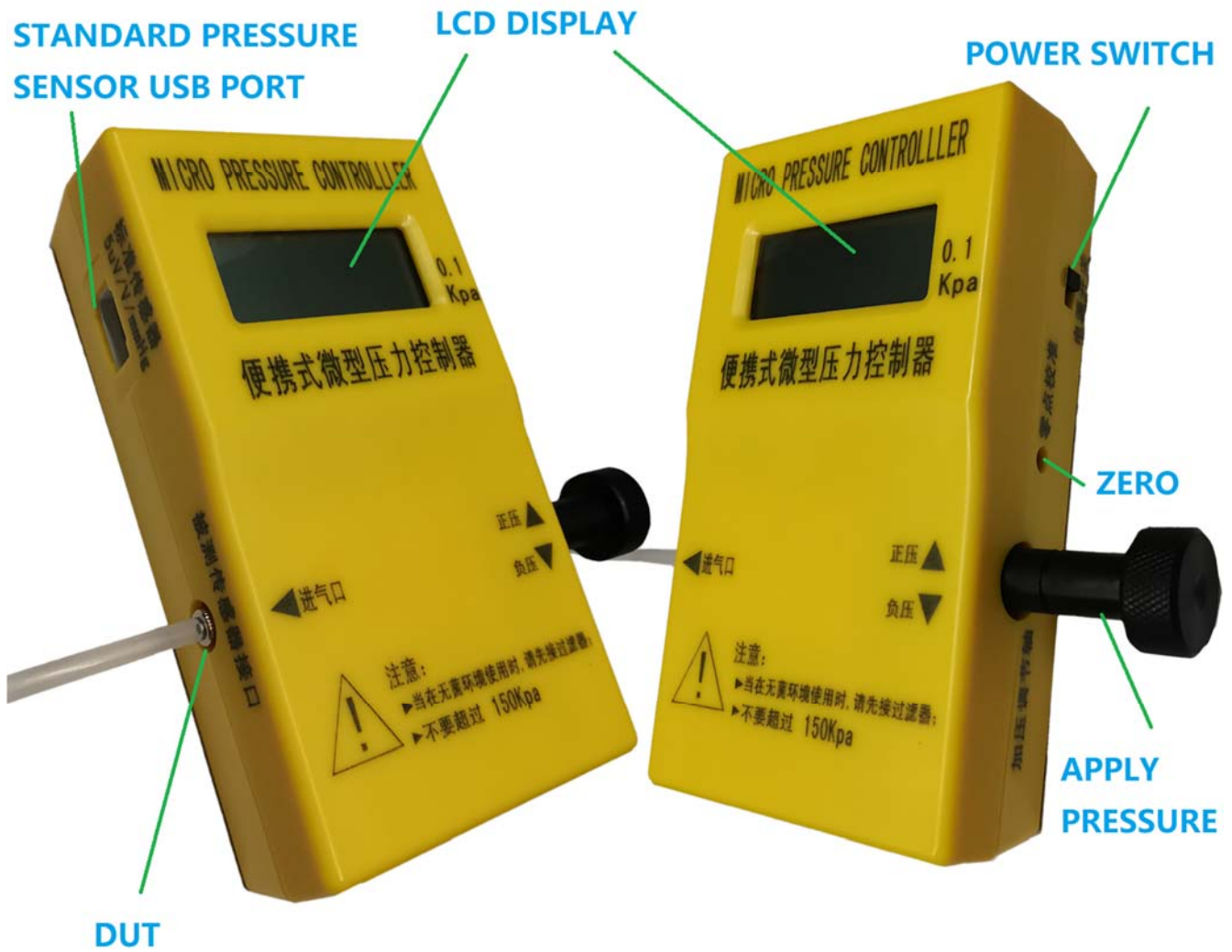


## Micro Pressure Controller Manual





## TABLE OF CONTENTS

INTRODUCTION .....Page 1

SECIOTN I .....Page 2

- Specifications

SECTION II.....Page 4

- Maintenance
  - Low Power Status
  - Battery Replacement
  - Clean
  - Zero calibration
  - Return of Goods

SECTION III.....Page 5

- Limited Warranty

SECITON IV.....Page 5

- Ordering Information



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## ..... INTRODUCITON .....

### DESCRIPTION

SA 950 is a micro pressure controller with LCD display, it can generate -70 to 200Kpa pressure through its internally embedded pressure pump with accurate pressure sensor. Pressure range can be customized, minimum 2KPa and maximum 200KPa, vacuum pressure can be reached to -70Kpa, pressure unit can be customized also. The internal standard pressure sensor can be used to calibrate the pressure output or as reference.

### APPLICATION

SA950 Micro Pressure Controller can be conveniently used within product development, quality control and filed calibration. It is extremely helpful to check the linearity, hysteresis, zero output, full scale output, repeatability and stability of the device under test.

SA950 can also be sued to verify the proper function of blood pressure transducer, reusable cable and monitor integrity during the application in ICU and surgery room.

## ..... SECITON I .....

### Specifications

ACCURACY :

±1% FULL SCALE

PRESSURE RANGE: -70 to 200Kpa, Can be customized

OPERATING TEMPERATURE: 5°C to 40°C (41°F - 105°F)

STORAGE TEMPERATURE: -20°C to 60°C (-5°F to 140°F)

OPERATING HUMIDITY: RH95% Max.

LCD DISPLAY : 4 DIGITS

DIMENSION : 160mm x 95mm x 35mm

WEIGHT: 350 GRAMS

POWER: 9VDC Battery ( Around 80 Hours Continuously)

STANDARD PRESSURE SENSOR PARAMETERS

- SENSITIVITY: 5  $\mu$ V/V/mmHg, +/- 1%
- POWER SUPPLY: 2 to 10 vdc, or vac rms to 5 khz
- INPUT RESISTANCE: 2000-4000  $\Omega$



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• OUTPUT RESISTANCE: 800-3000  $\Omega$

**Warning:** Discontinue use if liquid is spilled on device.

**Warning:** Pressure exceeding 200Kpa will cause leak, unstable pressure output and difficult to achieve the targeted pressure.

**Warning:** To gain as much as positive pressure capability, move the pressure regulator knob to a starting position which is further away from the housing. To gain as much as negative pressure capability, move the pressure regulator knob to a starting position which is closer to the housing.

## ●●●●●●●● SECTION II ●●●●●●●●

### Maintenance

#### Low Power Indicator

When the LCD begins to flash, it is an indication that the power is low, the battery should be replaced, otherwise the accuracy will decrease.

#### Battery Replacement

The access panel for the battery compartment is located on the back side of the housing. Remove the battery cover by pushing up the cover, replace the battery with 9volts alkaline. If the device is not going to be used for an extended length of 30 days, the battery should be removed before reuse.

#### Cleaning

The outside of the housing may be cleaned with a soft cloth dampened with water or isopropyl alcohol.

#### Zero Calibration

If the LCD display shows non zero when the pressure port is not connected to DUT, it can be adjusted to display zero by using a screwdriver to adjust the zero screw on the right hand side which is adjacent to the pressure regulator knob.

#### Return of Goods

If the device need to be returned for maintenance or repairing, please pack the unit carefully with its original shipping container or similar protective container and return to Sensorall International, contact Sensorall International personnel for details.



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## ..... SECTION III.....

### Limited Warranty

Sensorall International warrants to our immediate customer that our products will meet the published specifications and will be free from defects of material and workmanship. This warranty shall extend to a period of one year commencing on the date of sale.

Our liability is limited under this warranty to repair or replacement of materially defective parts with new or equal parts in exchange or, as our option, to refund the purchase price.

In no events shall Sensorall International be liable for consequential economic damage or consequential damage to property.

## ..... SECTION IV.....

### ORDERING INFORMATION

