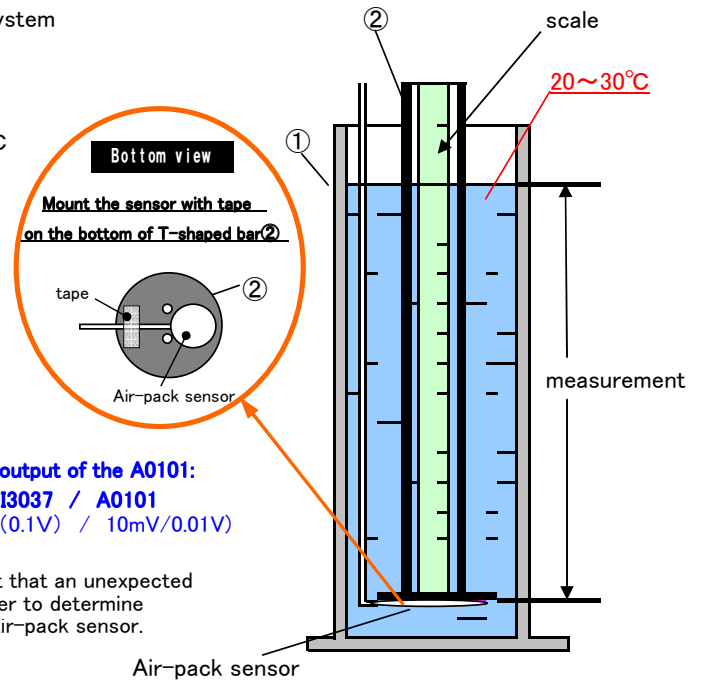


**【Calibration】** in combination with the Pressure Calibration System

**A. Calibration for Main unit and Air-pack sensor**

The accuracy shown in the catalog is the accuracy to be got  $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$  in atmospheric temperature.

- 1) Fill the Cylinder① with warm water ( $20 \sim 30^{\circ}\text{C}$ ) up to blue line level.  
(Note that the accuracy indicated on the system may become lower than that given in the data sheet of water less than  $20^{\circ}\text{C}$ )
- 2) Mount the Air-pack sensor on the bottom plate of the T-shaped bar②.
- 3) Submerge the T-shaped bar② into the cylinder①.
- 4) Measure the water depth with the scale painted on the T-shaped bar②.
- 5) Compare the value of pressure at the given water depth with the value indicated on the display for confirming the accuracy got from the system.

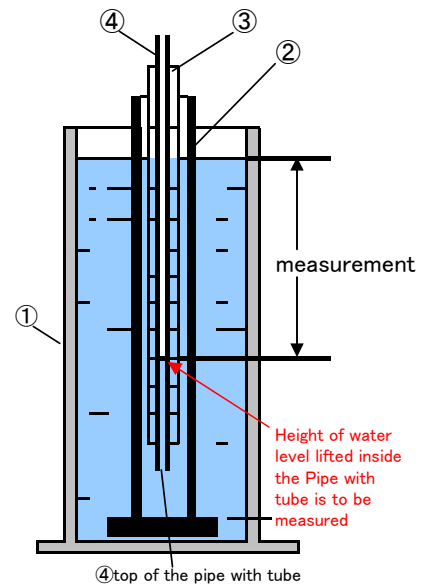


The pressure at the given water depth (102mmH<sub>2</sub>O) → Measured value to be got: 1kPa (10.2gf/cm<sup>2</sup> or 7.5mmHg) → Voltage output of the A0101: AMI3037 / A0101 100mV(0.1V) / 10mV(0.01V)

※ Proceed to the next step with Calibration B given below in the event that an unexpected error take place from the Calibration A. Also check the status in order to determine whether the error be brought about from the main unit or from the Air-pack sensor.

**B. Calibration for Main unit**

- 1) Connect the Pipe with Tube④ to the Main unit and make adjustment that the indication of output "0" on the display.
- 2) Submerge the T-shaped bar② into the cylinder①.
- 3) Insert the Scale③ into the pipe of the T-shaped bar. Adjust that the indication of water level may come to "0" while loosening a rubber ring and fix this status.
- 4) Insert the Pipe with tube④ into the hollow portion of the T-shaped bar② where the Scale③ is already mounted.
- 5) The water level inside the Pipe with tube④ is lifted by hydraulic pressure. Measure with the Scale③ the difference between the height of water level inside the Pipe with tube④ and the height of water level of the Cylinder① itself.

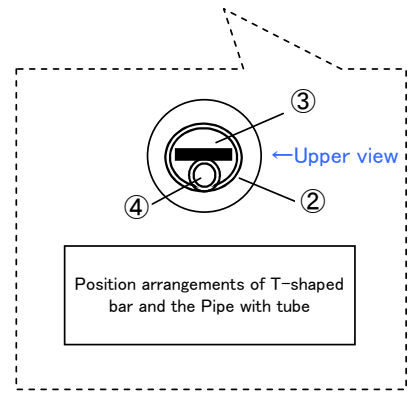


The pressure at the given water depth (102mmH<sub>2</sub>O) → Measured value to be got: 1kPa (10.2gf/cm<sup>2</sup> or 7.5mmHg) → Voltage output of the A0101: AMI3037 / A0101 100mV(0.1V) / 10mV(0.01V)

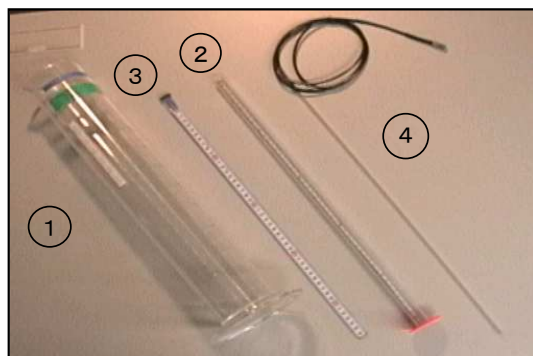
※ Return the whole main unit for our repair and readjustment provided that any errors outside the specified acceptable range.

**【Units for Conversion of Output and Pressure】**

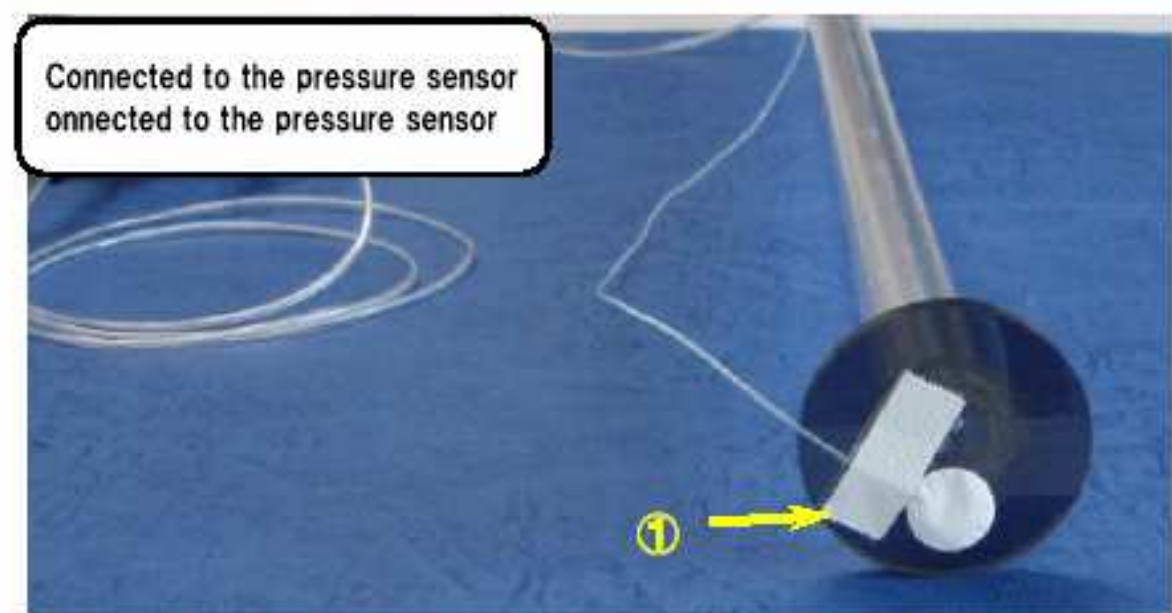
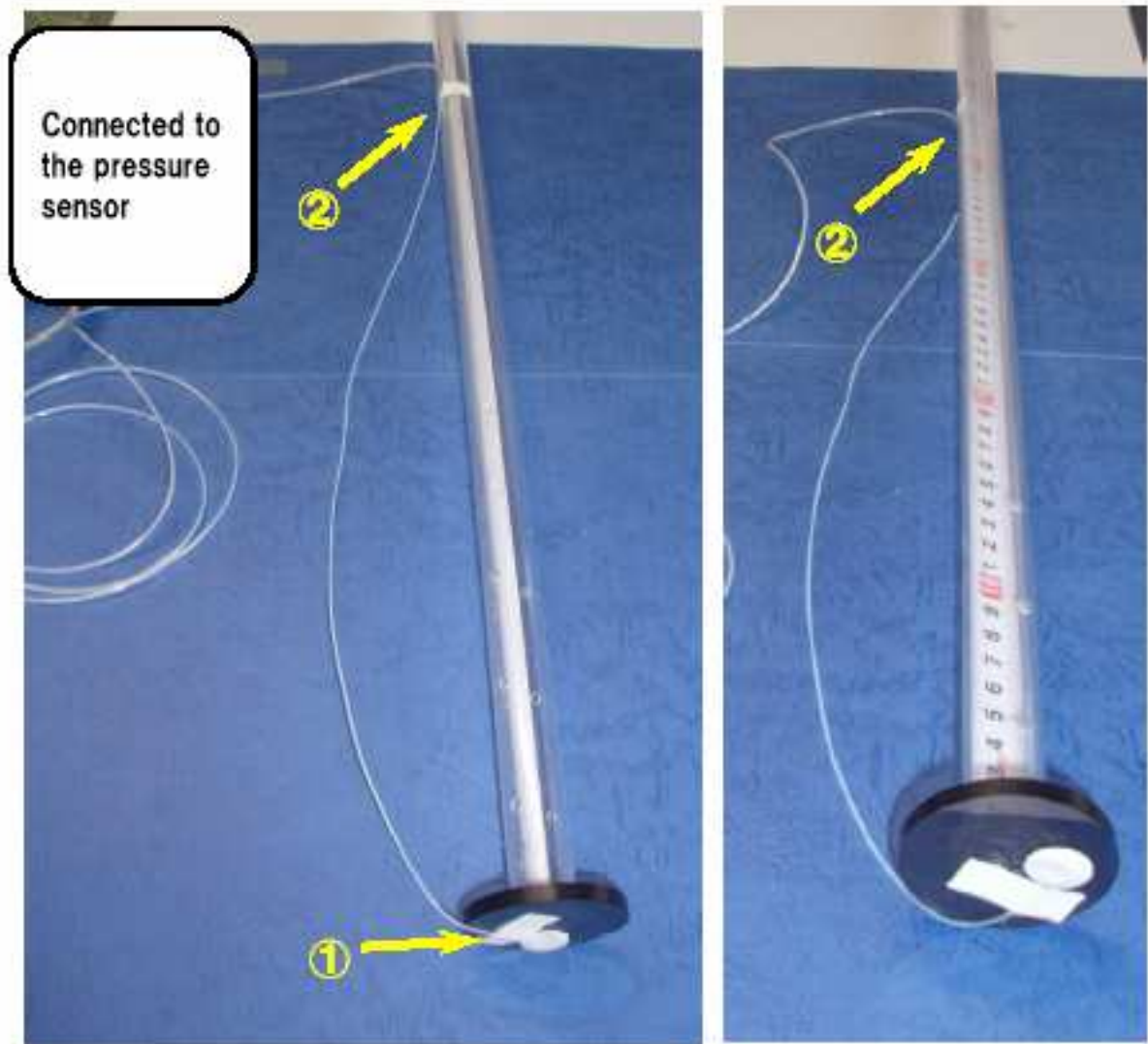
AMI3037	A0101/0905	SI unit	SI unit	former unit		
DCV	DCV	hPa	kPa	(gf/cm <sup>2</sup> )	(mmH <sub>2</sub> O)	(mmHg)
0.1	0.01	10	1	10.2	102	7.5
0.0098	0.00098	0.98	0.098	1	10	0.736
0.00098	0.000098	0.098	0.0098	0.1	1	0.0736
0.0133	0.00133	1.33	0.133	1.36	13.6	1



- ①Cylinder
- ②T-shaped bar
- ③Scale
- ④Pipe with tube



<Preparations for proofreading>



- ① Fix air pack in T-shaped bar
- ② The position whose scale can be seen