	Main System						for stockings / bandages		
Models	1ch/Handy	2ch/Extend	d 5ch/Desktop 10ch/Desktop		1ch/Desktop	1ch/Desktop and	d many points are possible		
	AMI 3037-2	AMI 3037-2B	AMI 3037-5S-II	AMI3037-10-11	A0101-G35k-II	A0905-SA-11	AMI3037-SB -hP- II	AMI3037-SB-mH- II	
Unit of pressure	convert the voltage	convert the voltage	, k Pa		k Pa	k Pa (or mmHg)	h Pa	(mmHg)	
ch	1	2	5	10	1	1	1	1	
Measuring Range	0~34.0	00 k Pa	0.00~35	5.00 k Pa	0.0~35.0 k Pa	0.0~35.0 k Pa	0∼350 hPa	0∼263 mmHg	
Air-pack ( <i>ø</i> 20)	-	-	-	-	—	0.0~20.0 kPa	0~200 hPa	0~150 mmHg	
Measuring Accuracy in 23°C Environment		±0.1 kPa 1/±0.25 kPa		±0.2 kPa 0 ±0.3 kPa		0 ±0.2 kPa 5.00 ±0.3 kPa	±2 hPa	±2 mmHg	
Output	1 k Pa → 0.1V (100mV)			1 k Pa →	0.01V(10mV)	—	_		
Numerical display	_	_	LED 5ch	LED 10ch	LED 1 ch	LED 1 ch	LED 1 ch	LED 1 ch	
Durable Pressure	up to 70 k Pa						up to 700 hPa	up to 500 mmHg	
Power supply	AC100V(11VA)	supplied by the left	AC90~250V		AC100V	AC100V	AC100V		
rower suppry	AA battery/1.5v×4 instrument		22.5VA	45VA	30VA 30Va		30VA		
Air-Cylinder	Optional attachment : AMI3037-AC/ Black, red, gree			Black, red, greer	n, and blue	Equipped by machinery	Equipped by machinery		
Air-pack Which is connected	Standard:AMI	3037-P2,AMI303	AMI3037-SB-P3/P5(\$\$\phi 20/?m)						
Zero adjustment	Adjustment by screw Reset switc/hzero switch Automatically						Automatically		
Applicable Environment	0~45℃ RH. 25~85%						0∼45°C R	H. 25~85%	
External Dimensions	W92×H45×D160 W510×H240×D230			W245>	<h65×d175< td=""><td colspan="3">W245×H65×D175</td></h65×d175<>	W245×H65×D175			
Weight	0.6Kg	0.6Kg	8Kg	10Kg		2Kg	2Kg		
Feature	Small and a Battery	Small and a Battery	Measure 5ch at the same time	Measure 10ch at the same time	The consecutive output	The consecutive output/Many points are possible	Watch numerical value/Many points are possible		

Air-Pack M	lodel•Standar	d:AMI3037-	P2 (Two) ,AMI	3037-P5 (Fiv	ve) / Parasol ty	pe:AMI3037	-P5P (Five) ,AMI3037	-P10P (Ten)	
Product number	1	<b>2</b> stock size	3	4	5	6	⑦Finger use	89/10	
Size (mm)	¢15	φ20	φ25	φ30	φ8×L=28	φ20×L=30	φ 12×L=15, φ 15×L=17		
Size & Tube Length	¢15/1.5m•2m	φ20/2m•3m	φ25/2m•3m	φ30/2m•3m	I /1.5m•2m	G/2m·3m	φ12×15/1.5m		
Parasol type (\$ OP)	-	\$\$\phi 20P/2.5m	φ25P/2.5m	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	T/1.5m-2m	GP/2.5m	φ15×17/1.5m		
for A0905 and AMI3037-SB	-	Model A0905, Gall use the special all-pack						89Tube is	
Max. Measuring range (Approx.)	10	20	30	38	15	20	15	connected under a bag	
Measuring accuracy (sensitivity to soft material)	±0.2	±0.1	±0.1	±0.1	±0.25	±0.1	±0.3	or set in the bag.	
Size Cover tape/Models	φ47/AMI3037-PTS		φ47/AMI3037-PTB						
Air Cylinder	Black(half ofRed)	Red	Green	Blue	Black	Red	Black		
	Sphere of $\phi$ 15 or larger	Sphere of $\phi$ 20 or larger (standard)	Sphere of $\phi$ 25 or lager but with small curvature	Sphere of $\phi 30$ or lager but with small curvature	Objects of 8 in width and 28 in length or longer. For belts, flat cords, side of fingers.	Objects of 20 in width and 30 in length or longer. For averaged portion of shoulder of coats.	Objects of 12 in width and 15 in length or longer. For fingers, etc.		



Models	AMI3037-CS						
Calibration Range	0∼4.5 kPa						
Compositions							
①Fine Chemical Cylinder	$\phi$ 95 × L=500						
②Scale	L=500						
③T-shaped bar	φ50 L=500						
④Pipe with tube	$\phi$ 6 × L=500 1.5m						
Weight	1kg						
For the abnormal management of the measurement							





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## ≪Reliability ≫ Measurement with soft sensor for soft plane → air and soft bag → The influence on contact surface is extremely little and reproducibility is good.

This contact surface pressure measuring system is a system to measure a surface pressure of a soft material to which the sensor of this system is in contact and to correct errors in the reading to be brought about by a thermal change in the environment. This system has been approved by patent authorities in several countries in the world as a unique system to be able to effect a reliable measurement of a contact pressure of soft materials with a high reproducibility. This system does not require any special preliminary correction for the reading to be usually made before use. This system can also make a continual measurement sequentially.

## Air-pack method

An air is enclosed between two contacted surfaces and the pressure of that enclosed air is measured externally from the contacted surface. Into a flat bag made with a flexible film of a least possible elasticity, an air is enclosed in the thickness of 1mm.

## Feature

(1) It is easy to stick each part of the living body and between ruggedness of the cloth and reproducibility is good in 20mm (standard) diameter. The center part of the bag comes in contact with the point when it is too large and the situation is changeable and reproducibility worsens partial pressure it. For exsample, only the center of the air pack comes in contact in the ankle that the ruggedness is 30mm in diameter.



(2) The influence of the air pack that infuse some air in 1mm in thickness becomes thinner because of pressure sinks softly of the living body and the clothes is extremely little. However, when infusing in 1.5mm in thickness and measuring it in the cylinder of  $\phi$  100, the value about 1.3 times 1mm in thickness was confirmed.

(3) The circle shape mounted to body part easily. The result change by the direction when designed besides the circle. For exsample, the top becomes the mean value of the lowering area high in surroundings in the measurement with the hemisphere.

(4) In piping in the tube of 1mm that doesn't collapse, it is unaffected in the piping situation catching the transformation of the bag of the air pack (alteration in volume). The result change for a soft material such as silicon rubber in the piping situation.

## Each error in measurement (DPermissible error+2)Measuring area error+3)Position error+4)Restoration of tools material+5)Attitude error

### **Permissible error:** Describes in the specification.

2 Measuring area error: The difference of the characteristic the mounted position, the figure and the softness of the air pack sensor is caused.

**③Position error:** The value changes partially in how like hitching and a horizontal gap to match it when setting it to the measurement site when tools are installed. The error is somewhat caused though putting the sign and the line in tools in detail, and improving accuracy are necessary.

**(Argumention of tools material:** The difference of the restoration is caused by the sweat, the expansion in the rig frequency.

**5**Attitude error : It influences pressure in transmission and the weight shift of the material tension because of the difference among the posture angle, arm and the head position.

**Note:** In the measurement of body pressure to know the distribution pressure is important. However, the method of paving the seat sensor in the distribution pressure measurement and the calling contact surface and the measurements has the anxiety in reproducibility and the measurement accuracy. Non-elastic film seat enclosed between two contacted surfaces and A flexible characteristic and the contact friction are completely changed and it is not easy to call bodey



# [Calibration for pressure sensor and output]

to main unit

A pressure on horizontal plane corresponding to the water pressure can be got by measuring the water depth.

						Model	AMI3037-2, 58, 10		A0101 / A0905		
		7	SI u	SI unit Former		Former unit		DC output		DC output	
		Mearuremen	hPa	k Pa	(gf/cm²)	(mmH <sub>2</sub> 0)	(mmHg)	DC V	DCmV	DC V	DCmV
		t depth	10	1	10.2	102	7.5	0.100	100	0.010	10
		l	0.98	0.098	1	10	0.736	0.010	9.8	0.001	0.98
			0.098	0.0098	0.1	1	0.074	0.001	0.98	0.0001	0.1
101000000000000000000000000000000000000	831755635		1.333	0.1333	1.36	13.6	1	0.013	13.3	0.0013	1.3

#### Purpose of use for pressure measuring device

The measurement accuracy and reproducibility are confirmed the reproduction of a flexible plane contact environment. Error margin confirmation of secular distortion and confirmation of unexpected value when measuring it. It is not necessary to calibration before each measurement. \* Because the standard of the contact pressure (ISO and JIS, etc.) in soft respect is not decided, the proofreading examination such as the inspecting agencies cannot be done under the present situation.



