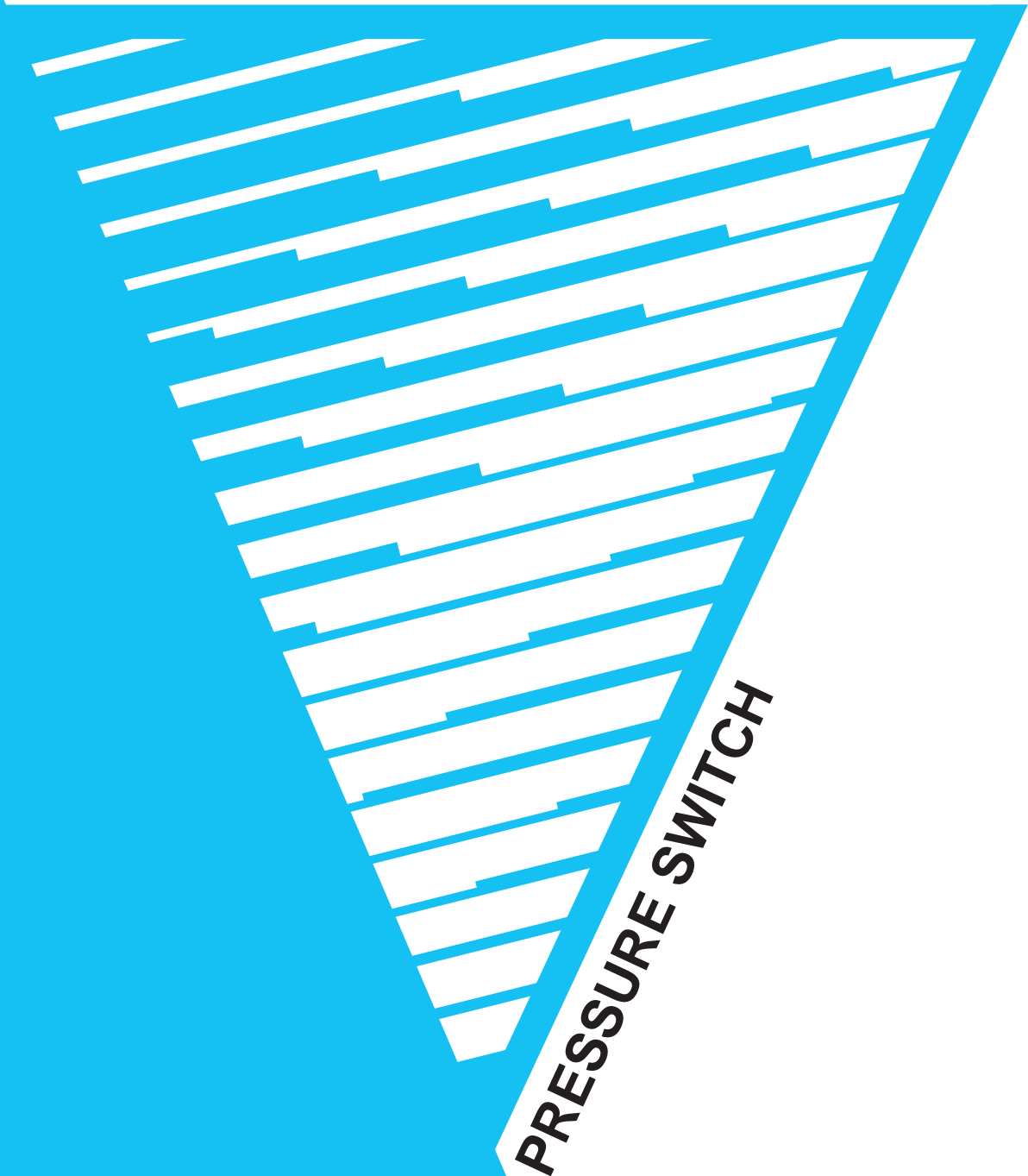


Guide to products

This catalog describes the pressure switches only from the line of our products to introduce the outline. We are very happy if this brochure can be helpful for your product selection.




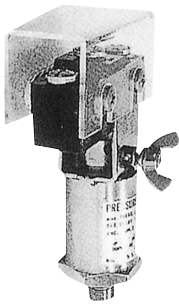

PRESSURE SWITCH



ASAHI GAUGE MFG. CO., LTD.
JAPAN

Product name	Small-size pressure-resistant & explosion-proof pressure switch	Small-size pressure-resistant & explosion-proof low range pressure switch	Pressure-resistant & explosion-proof pressure switch	Pressure-resistant & explosion-proof differential pressure switch
Model	1 AdS	2 AdS	3 AdC	4 AdC-W
Appearance				
Size	Main unit: φ122 x 190	Main unit: φ122 x 190	242H x 277W x 140D	242H x 277W x 140D
Application	1. Authorized product for d2G4 explosion-proof 2. Compact and light weight 3. Wet parts are all SUS 4. For various plants and equipment	1. Authorized product for d2G4 explosion-proof 2. Compact and light weight 3. For various plants and equipment	1. Authorized product for d2G4 explosion-proof 2. With setting scale (Product with the indication scale is available.) 3. Wet parts are all SUS 4. For various plants	1. Authorized product for d2G4 explosion-proof 2. With setting scale (Product with the indication scale is available.) 3. For various plants
Pressure range	0~0.08MPa~0~10MPa Vacuum, compound (Limited range is available.)	0~3kPa~0~50kPa Vacuum, compound (Limited range is available.)	0~5kPa~0~50MPa Vacuum, compound	Differential pressure range 0~5kPa~0~0.6MPa
Case	ADC, waterproof type, silver gray	ADC, waterproof, silver gray	ADC, waterproof, silver gray	ADC, waterproof, silver gray
Element	Bourdon-tube	Bellows	Chamber≤0~30kPa Bourdon-tube≥0~0.08MPa	Bellows≤0~30kPa Bourdon-tube≥0~0.08MPa
Wet part material	SUS316.SUS316L	SUS316+NBR	SUS316.SUS316L	SUS316+NBR
Connection	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2
Type of contact	Micro switch, 1 or 2 SPDT	Micro switch, 1SPDT	Micro switch, 1 or 2 SPDT (Photoelectric switch, pointer contacts are available.)	Micro switch, 1 or 2 SPDT
Number of contacts	1 or 2	1	1 or 2	1 or 2 (More than 20kPa) (Indication scale is not equipped in the case of 2 points.)
Capacity	AC250V 10A (Resistance load) DC125V 0.5A (Resistance load)	AC250V 10A (Resistance load) DC125V 0.5A (Resistance load)	AC250V 10A (Resistance load) DC125V 0.4A (Resistance load)	AC250V 10A (Resistance load) DC125V 0.4A (Resistance load)
ON/OFF differential	Less than 14%F.S. (Varies depending on the range.) (Receiver: 3%F.S. is available.)	Within 10%F.S.	0.1MPa≤15%F.S. 0.2~0.3MPa10%F.S. 0.4~0.6 7%F.S. 1MPa≤5%F.S.	Within 7%
Repeatability	Within 1%F.S.	Within 1.5%F.S.	Within 1%F.S.	Within 1%F.S.
Setting method	Adjust with a screwdriver from outside.	Adjust with a screwdriver from outside.	Remove the screw lid and adjust with a screwdriver.	Remove the screw lid and adjust with a screwdriver.
Setting scale	None	None	Yes	Yes
Lead cable outlet	G3/4(F), Pressure-tight packings	G3/4(F), Pressure-tight packings	G3/4(F), Pressure-tight packings	G3/4(F), Pressure-tight packings
Mounting method	Mounting on a 2-inch pipe stand or a wall-mounting	Mounting on a 2-inch pipe stand or a wall-mounting	Wall mounting	Wall mounting
Diaphragm type	Diaphragm type is available in the same way as the general pressure gauge	Inapplicable	For more than 0.08MPa, the diaphragm type is available in the same way as the pressure gauge.	For more than 0.1MPa, the diaphragm type is available in the same way as the pressure gauge.
Weight	About 3.2kg~3.5kg	About 3.5kg	About 5.5kg	About 8.5kg
Others	Product with 50φ indicator is available.		Indication scale is available.	Pressure-resistance: Max.5MPa Use the equalizing valve.

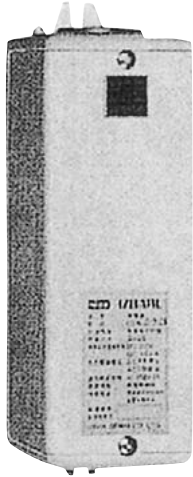
Product name	Low range differential pressure switch	Differential pressure switch	Pressure gauge with pointer contacts	Pressure gauge with micro contacts	Pressure switch	Pressure switch	Pressure switch
Model	5 MS-61H-VT MS-61L-VT	6 787ME	7 649	8 670	9 HM	10 GM	11 KM
Appearance							
Size	90H x 70W x 41D	φ100, φ150	φ100, φ150	φ100, φ150	Square 165H x 100W x 60D	Square 120H x 122W x 92D	Square 120H x 125W x 58D Square 80H x 75W x 45D (<1K)
Application	1. Detection of the filter clogging 2. Control of the ventilation and duct 3. Drying furnace control 4. Clean room, bio-room pressure control	1. Level control of the tank 2. Flow rate control of the pipeline (Combined with the orifice) 3. Detection of the filter clogging	1. The circuit is closed by contacting of the pressure pointer and the setting pointer. 2. Applicable for an alarm such as the lamp blinking 3. Precision setting is possible. 4. Less ON/OFF differential	1. Displacement of element activates the micro switch and generates the electric signal of ON and OFF. 2. Applicable for alarms or controls 3. Applicable for chemical plants 4. Equipped with SPDT contacts	1. Excellent vibration resistance and durability since there is no rotary part. 2. For machines and equipments 3. Large current capacity	1. Excellent vibration resistance and durability since there is no rotary part. 2. For power plants and other plants 3. 2 contacts are provided.	1. Higher pressure resistance in comparison with the setting value 2. For various plants
Pressure range	0.02~0.12 0.05~0.3 0.1~0.6 0.2~1.2 0.5~3 1~6 kPa (One side pressure-resistance 20kPa)	0~15kPa~0~0.6MPa Standard pressure 5MPa	0~1.5kPa~0~200MPa Vacuum, compound	0~4kPa~0~50MPa Vacuum, compound	0~0.1MPa~0~100MPa Vacuum, compound	0~0.05MPa~0~50MPa Vacuum, compound	0~3kPa~Pressure resistance 10kPa 0~5MPa~Pressure resistance 6MPa Vacuum
Case	Polycarbonate plastic Black	SPC black or SUS304 drip-proof type	ADC general type, ADC.Drip-proof type, black	ADC Drip-proof type, black	ADC.Drip-proof black	ADC.drip-proof (IP54) Gray	ADC.Drip-proof type (IP54) Gray
Element	Diaphragm	Bellows	Bourdon-tube, Chamber	Bourdon-tube, bellows	Bourdon-tube	Bourdon-tube	Bellows
Wet part material	Rubber+BRASS	SUS316+NBR (or Viton)	BRASS SUS316 SUS316L	SUS316 SUS316L	BRASS or SUS316	BRASS or SUS316	SUS316
Connection	Vinyl tube or rubber tube (φ4)	G3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, R3/8 NPT3/8	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2	G3/8, 1/2 R3/8, 1/2 NPT3/8, 1/2
Type of contact	Upper limit or lower limit (Specified) Micro switch	Micro switch 1SPDT, 2Contacts	Pointer 1 or 2 SPST	Micro switch 1 or 2 SPDT	Micro switch 1SPDT	Micro switch 1 or 2 SPST	Micro switch 1SPDT
Number of contacts	1	2	1 or 2	1 or 2	1	1 or 2	1
Capacity	AC250V 5A (Resistance load) DC125V 5A (Resistance load) DC30V 3A (Resistance load)	AC250V 3A (Resistance load)	AC100V 0.5A (Resistance load) AC100V 0.05A (Inductive load)	AC250V 10A (Resistance load) DC125V 0.4A (Resistance load)	AC250V 15A (Resistance load)	AC250V 15A (Resistance load)	AC250V 10A (Resistance load)
ON/OFF differential	About 15~20%F.S.	MAX10%F.S.	0.3%F.S.	6%~15%F.S.	0.3~3~9%F.S. 1~1~3%F.S. 25~1~2%F.S.	MAX10%F.S.	3~8%F.S. Varies depends on the range.
Repeatability	Within 1%F.S.	±1%F.S.	±0.5%F.S.	±1%F.S.	Within 1%F.S.	Within 1%F.S.	Within 1%F.S.
Setting method	Turn the graduation knob	Remove the screw lid and adjust with a screwdriver.	Setting by turning the knob from outside	Adjust with a screwdriver from inside or outside.	Remove the screw lid and adjust with a screwdriver.	Remove the screw lid and adjust with a screwdriver.	Adjust with an Allen wrench from outside
Setting scale	Yes	Yes	Yes	Yes	With the setting scale: HM-S Without the setting scale: HM-N	None	None
Lead cable outlet	Terminal block, M3.5 screw wiring	Waterproof terminal box With the JIS15C gland packing G1/2	Terminal, Waterproof terminal box	Waterproof terminal box	20a Through Fixture for ships	20a Through Fixture for ships	15a Through Fixture for ships
Mounting method	Wall mounting	Mounting on a 2-inch pipe stand or a wall-mounting	Self-standing, Panel mounting	Self-standing, Panel mounting	Self-standing	Wall mounting or self-standing	Wall mounting or self-standing
Diaphragm type	Inapplicable	Differential pressure range more than 0.1MPa is available for diaphragm type.	For more than 0.1MPa, the diaphragm type is available.	For more than 0.1MPa, the diaphragm type is available.	Diaphragm type is available in the same way as the general pressure gauge.	Diaphragm type is available in the similar way as the general pressure gauge.	Inapplicable
Weight	About 0.1kg	About 3kg	About 1kg	About 2kg	About 1.2kg	About 1.5kg	About 2kg
Others	Case pressure-resistance 0.1MPa	Product with the indication scale is available. (φ150)	With the indication scale	With indication scale Without indication scale			

Product name	Chemical resistance pressure switch	Semiconductor pressure switch	Pressure switch for hydraulics
Model	12 HP-JP	13 PBM	14 PSS
Appearance			
Size	φ48 x 112H		□38 x 107H
Application	<ol style="list-style-type: none"> 1. Wet parts are all PTFE. 2. High pressure resistance 3. Compact 4. Applicable for semiconductors, medicines and food industries. 	<ol style="list-style-type: none"> 1. For semiconductor manufacturing facilities 2. For gas lines of semiconductor manufacturing 3. Can be used for general equipment 	<ol style="list-style-type: none"> 1. For hydraulic pumps and hydraulic equipment 2. Long life by the ram mechanism 3. Compact but high current capacity
Pressure range	HP-JP-C 0.15~0.6 HP-JP-E 0.03~0.1MPa	0.02~0.35 0.1~0.7MPa	0~10MPa→0~70MPa
Case	Enclosed in the transparent PVC case Drip-proof type	SUS316	Main unit: C3604+AL Drip-proof type
Element	PTFE diaphragm (SUS diaphragm is available.)	Bellows	Ram+Spring
Wet part material	PTFE	SUS316+SUS316L	SUS304+PTFE+NBR+BRASS
Connection	G3/8.	R1/8 R1/4 VCR1/4	R3/8 NPT3/8 union
Type of contact	Micro switch, 1SPDT	Micro switch, 1SPDT	Micro switch Upper limit 1SPDP
Number of contacts	1	1	1
Capacity	AC250V 3A (Resistance load)	AC200V 10A (Resistance load)	AC250V 10A (Resistance load) DC125V 0.5A (Resistance load)
ON/OFF differential	2~7%F.S.		MAX x 10%F.S.
Repeatability	Within 1%F.S.	Within 1%F.S.	1%F.S.
Setting method	Screw adjustment by the set scale	Adjust by turning the knob with a thin bar.	Adjust with an Allen wrench from outside
Setting scale	Yes	None	Yes
Lead cable outlet	With a waterproof cord	Connect directly with the micro switch.	φ6-10 DIN terminals
Mounting method	Self-standing	Self-standing	Self-standing
Diaphragm type	Inapplicable	Inapplicable	Inapplicable
Weight	About 0.3kg	About 0.2kg	About 0.5kg
Others		Pressure resistance: 1MPa Oil inhibition, Water inhibition	

Inherent Safety And Explosion-Proof Construction

Contact signal converter (Barrier relay) Authorized product by the official approval

By sending the open/close signal from the pressure switch through this barrier relay, the pressure switches (excluding the electronic type) can be applied safely and intrinsically even in the hazardous area of Division 0, 1 and 2 areas where the explosive gases exist.



Explosion-proof capacity: i3nG5
Applicable gases: Less than Explosion Class 3,
Ignition Group 5 Can be used for
hydrogen, acetylene and carbon
disulfide
Model: IBR2011 AC100V 1 contact
IBR2021 AC100V 2 contacts