

Measurement products by industry

SELECTION GUIDE

**NAGANO KEIKI's measurement products are
used in various industrial fields
as a core technology brand.**

New energy

Industrial instruments and process

**Semiconductor manufacturing processes and
Air conditioning system**

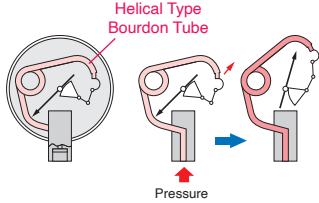
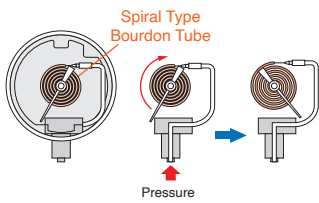
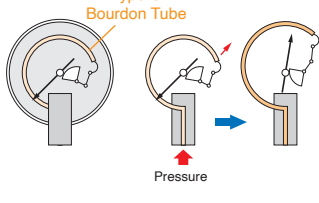
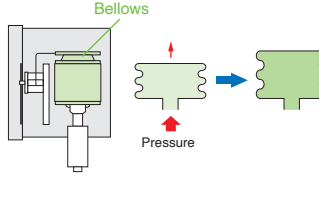
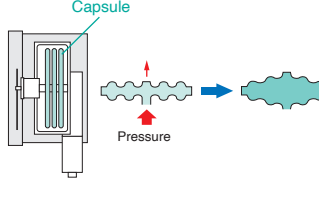
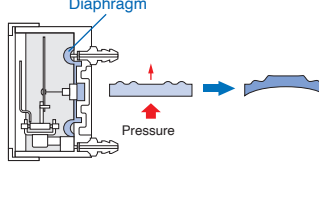
FA and industrial machinery

Food, pharmaceuticals and cosmetics

Various mobile vehicle

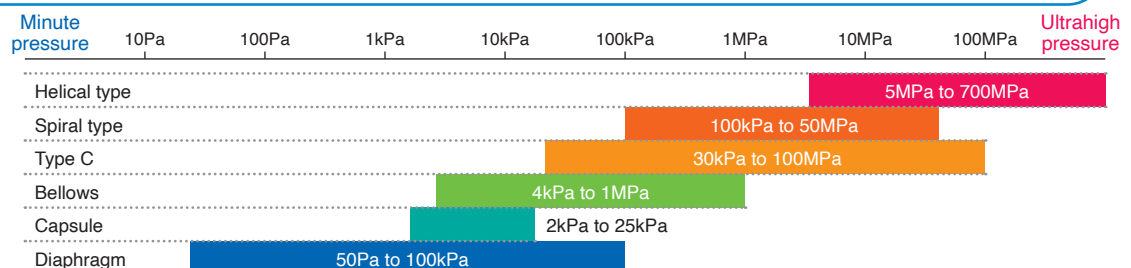
Core Technologies Supporting Nagano Keiki

Mechanical Core Technologies

Medium to high pressure	Helical Type Bourdon Tube 	The helical type bourdon tube is equipped on a pressure gauge for high pressure measurements not supported on the C-type bourdon tube. 
Low to medium pressure	Spiral Type Bourdon Tube 	The spiral type bourdon tube is not require the internal mechanism used in general pressure gauges. For that reason, the measurable pressure range is limited, but the durability is superior. 
Low to medium pressure	Type C Bourdon Tube 	The bourdon tube is the most important component of the mechanical pressure gauge. The Type C bourdon tube is the most commonly used shape, with a wide measurable pressure range and excellent accuracy and durability. 
Low pressure	Bellows 	The bellows is a thin cylinder element with deep bellows-like folds on the outer circumference. This method uses the displacement caused by applying pressure inside the bellows. It is also possible to measure differential pressure by applying pressure to the inside and outside of the bellows. 
Minute pressure	Capsule 	The capsule is made of two corrugated circular metal plates joined together, and the method involves applying pressure to the inside and utilizing the resulting displacement. 
Fine differential pressure	Diaphragm 	The diaphragm is an element made of a relatively flexible plate material with a fixed periphery. When pressure is applied, the center part bends, and this displacement is utilized. 

Ultrahigh pressure

Minute pressure



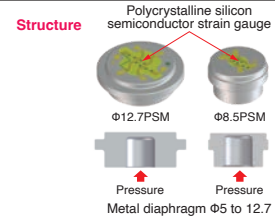
Electronic Core Technologies (Sensor Element)

Medium to high pressure

SS Sensor Semiconductor Strain Gauge Sensor



In this semiconductor strain gauge sensor, a strain gauge is deposited by plasma CVD on a metallic diaphragm and on insulator film. This pressure sensor detects strain caused by the distortion of the diaphragm due to the pressure applied on this diaphragm from liquid, by means of measuring the change in resistance.

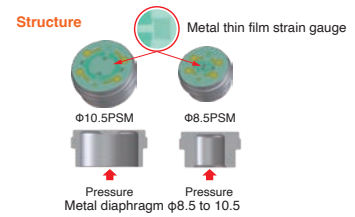


Medium to high pressure

MS Sensor Metal Thin Film Strain Gauge Sensor



The MS sensor uses a sputter-deposited metal thin film strain gauge as the strain gauge, and compared to the SS sensor, it is a medium-to-high pressure sensor that has both high stability and high electrical stress resistance and can function in higher temperature environments and environments with more noise.

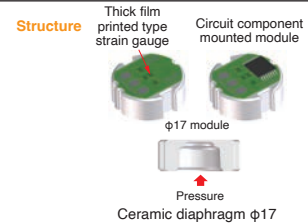


Medium pressure

CS Sensor Ceramic Thick Film Strain Gauge Sensor



The CS sensor is a ceramic sensor in which a strain gauge and bridge circuit are formed on a ceramic diaphragm by thick film printing. Because the diaphragm itself is ceramic, it has excellent insulation and corrosion resistance and is a sensor module on which circuit components such as ASIC can also be mounted.

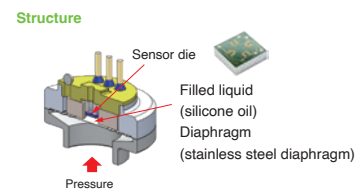


Low to medium pressure

Liquid-Filled SUS316L Sensor Stainless Steel Seal Diaphragm Sensor



This is a diaphragm-type pressure sensor that has been oil-sealed between the sensor and the SUS316L diaphragm using the MEMS sensor die. This sensor is used for the low and absolute pressures, which detects a change in resistance of the strain gauge by transmitting the pressure received by the SUS316L diaphragm to the sensor die through the filled liquid.

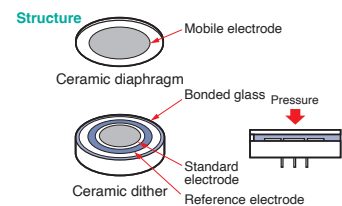


Low pressure

CC Sensor Ceramic Capacitance Sensor



The CC sensor is a highly repeatable low pressure sensor which detects pressure by sensing capacity change between the electrode installed on the ceramic diaphragm and another stationary electrode at the other end.

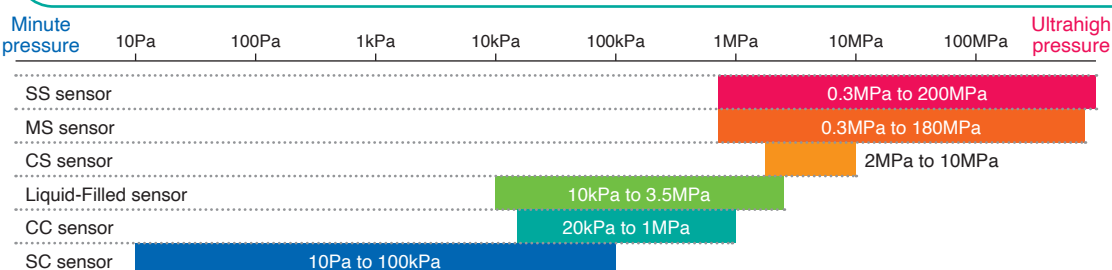
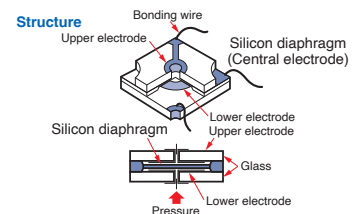


Fine differential pressure

SC Sensor Silicon Capacitance Sensor

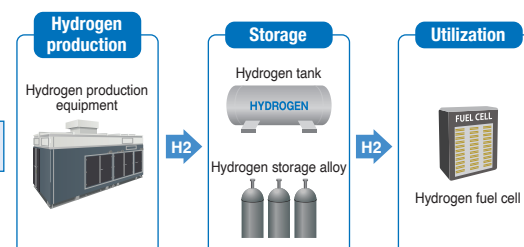
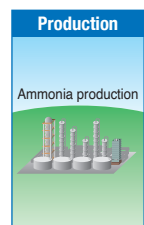
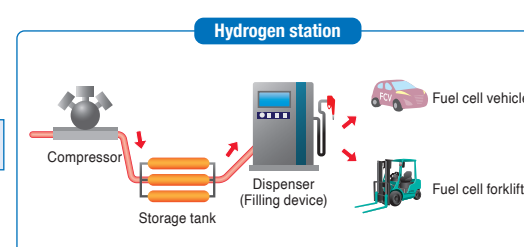
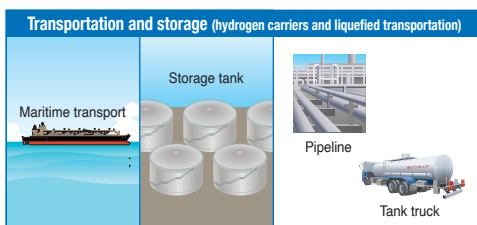
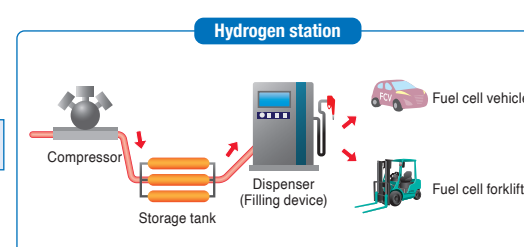
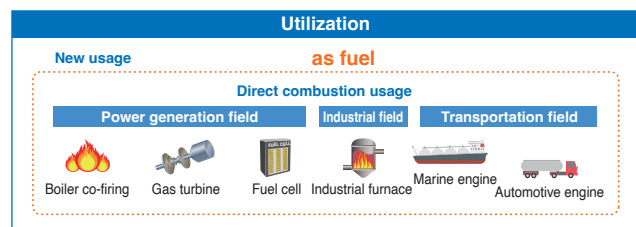


The SC sensor is a differential fine pressure sensor to detect pressure by change in capacitance between the diaphragm and the electrode. The silicon diaphragm is processed with micron-order accuracy on the cutting-edge micro-machining technology.

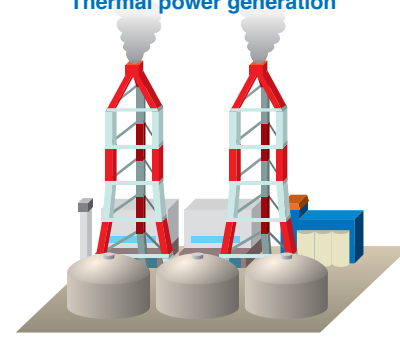
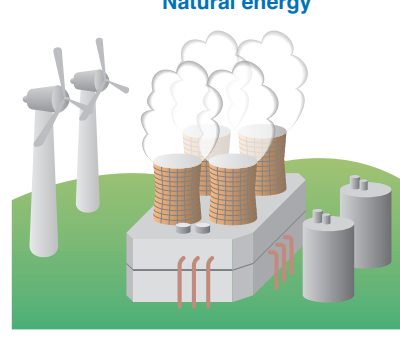


Hydrogen

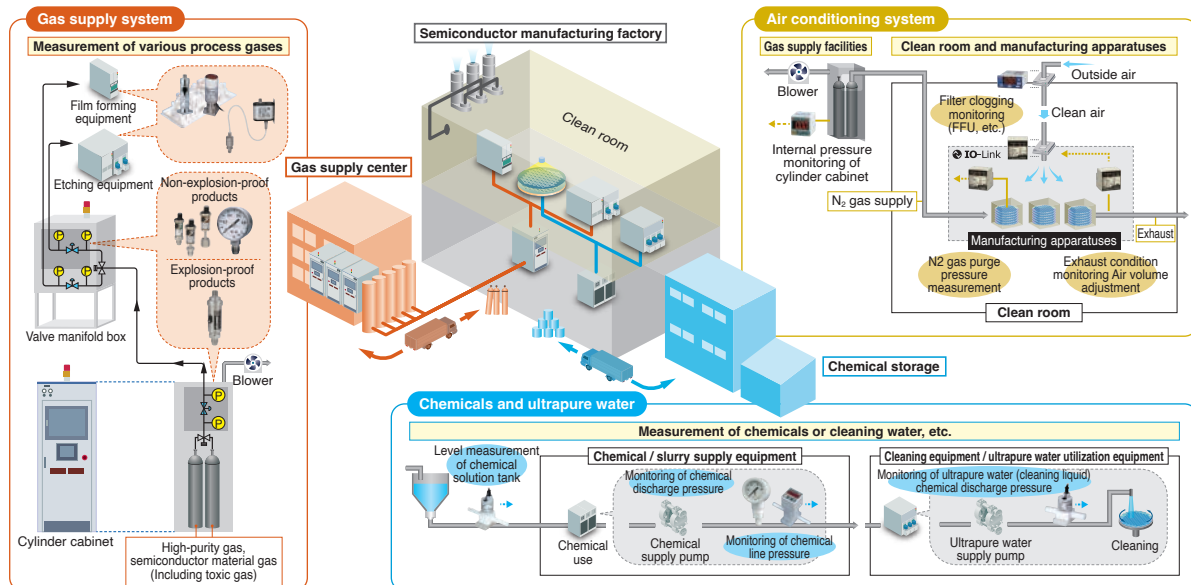
Ammonia

Manufacturing business	Hydrogen production/water electrolysis equipment				Fuel cell				
	Hydrogen power generation		Hydrogen stations		Various mobile vehicle				
Mounting applications	Hydrogen production /storage/utilization				Ammonia production/storage/utilization				
	Fuel		Hydrogen station operation		Ammonia production/storage/utilization		Fuel		
Pressure gauge/switch, differential pressure gauge/switch	Process industrial pressure gauge  • SUS316L	Solid front pressure gauge for high pressure hydrogen  CE UK CA RoHS • XM-19 (HRX19®) • Solid front structure	φ60 pressure gauge for high pressure hydrogen  CE UK CA RoHS • φ60 small size • Glycerin bath/dry type	Glycerin bath type pressure gauge for high pressure hydrogen  CE UK CA RoHS • SUS316L	General industrial pressure gauge  • For ammonia SUS316, SUS internal mechanism	Process industrial pressure gauge  • For ammonia SUS316, SUS internal mechanism	Glycerin bath type pressure gauge  RoHS • Glycerin filled to protect the internal mechanism	Solid front type pressure gauge  • SUS internal mechanism	
	Differential pressure gauge (diaphragm type)  RoHS • All-welded construction diaphragm type	Flame proof type differential pressure switch (diaphragm type)  Explosion proof RoHS • All-welded construction diaphragm type	Flame proof type pressure switch  Explosion proof RoHS • IECEX, TIIS, KOSHA, ATEX certification obtained • Adjustable dead band type		Differential pressure gauge for ammonia measurement  RoHS • SUS internal mechanism, O-ring: EPDM	Flame proof type pressure switch  Explosion proof RoHS • Pressure resistant explosion proof construction	Flame proof type pressure switch  Explosion proof RoHS • IECEX, TIIS, KOSHA, ATEX certification obtained • Adjustable dead band type	Flame proof type differential pressure switch for ammonia measurement  Explosion proof RoHS • IECEX, TIIS, KOSHA, ATEX certification obtained • One-side proof pressure resistance: 20MPa	
	Pressure sensor/Differential pressure sensor	EH15  CE UK CA RoHS • SUS316L non-filled type • High accuracy: ±0.25% F.S.	GC51  CE UK CA RoHS • SUS316L non-filled type • Display + analog output	GC55  CE UK CA RoHS • SUS316L liquid-filled type • Display + switch + analog output (option)		EH15  CE UK CA RoHS • SUS316L liquid-filled /non-filled type • High accuracy: ±0.25% F.S.	GC51  CE UK CA RoHS • SUS316L liquid-filled /non-filled type • Display + analog output	GC55  CE UK CA RoHS • SUS316L liquid-filled type • Display + switch + analog output (option)	
		EJ15  Explosion proof CE UK CA RoHS • SUH660 • NK certification obtained	KJ91  Explosion proof CE UK CA RoHS • SUH660 • NK certification obtained			EJ15  Explosion proof CE UK CA RoHS • SUS316L non-filled type • NK certification obtained	KJ91  Explosion proof CE UK CA RoHS • SUS316L non-filled type • NK certification obtained		
Application	Low pressure applications 				Production 				
	High pressure applications 				Transportation and storage (hydrogen carriers and liquefied transportation) 				
	Hydrogen station 				Utilization New usage as fuel Direct combustion usage 				

Industrial instrument and process

Manufacturing business	Information and Communications		Plant related		Energy		
Mounting applications	Oil refinery		Fuel/gas supply		Boiler/turbine/generator		
Pressure gauge/switch, differential pressure gauge/switch	General industrial pressure gauge  - Indoor use - φ60 to φ200	Process industrial pressure gauge  - Outdoor use - φ60 to φ300	Direct-acting pressure gauge  - Φ100 - Steam (Bottom connection type) - Panel (Back connection type)	Differential Pressure Gauge  Differential pressure gauge or differential pressure gauge with electric contacts	Stainless type low pressure gauge  Protection class: IP67 equivalent	Glycerin bath type pressure gauge  - High vibration resistance and durability - φ60 to φ150	Diaphragm-seal type pressure gauge  - Compatible with various instruments - High temperature and high viscosity fluids
	Pressure switch  Pressure switch: CB/CQ	Flame proof type pressure switch  - IECEX, TIIS, KOSHA, ATEX certification obtained - Adjustable dead band type	Pressure switch  1 or 2 contacts - Indoor and outdoor lineup	Pressure gauge with electric contact  - Pressure indication + switch - φ75 to φ200	Differential pressure switch  One-side proof pressure resistance: 8MPa	Flame proof type differential pressure switch  - IECEX, TIIS, KOSHA, ATEX certification obtained - One-side proof pressure resistance: 20MPa	Differential pressure gauge with electric contact  Differential pressure indication + switch
Pressure sensor/Differential pressure sensor	EH15  - SUS630/SUS316L - High accuracy: ±0.25% F.S.	GC51  - SUS630/SUS316L - Display + analog output	GC52  - SUS316L Liquid-Filled type - Display + analog output	KH15  - Diaphragm material can be selected according to the application. - Standard type / Flush diaphragm	EJ15  - SUS630/Co-Ni alloy / SUS316L - NK certification obtained	KJ91  - SUS630/Co-Ni alloy / SUS316L - NK certification obtained	KJ92  - SUS316L Liquid-Filled type - NK certification obtained
	KF10  - Newly developed optical pressure sensor (with temperature measurement). - High temperatures: 400°C			Bimetal thermometer  Bimetal type	Thermometer  - Liquid-Filled type - Supports direct/remote measurement	Thermometer with electric contact  - Liquid-Filled type - Explosion-proof TD, Thermometer with electric contact TE, TF	TH temperature transmitter  - Platinum resistance temperature detector - Higher accuracy than mechanical thermometers
Application	Thermal power generation 			Natural energy 			
	Chemical plant 						

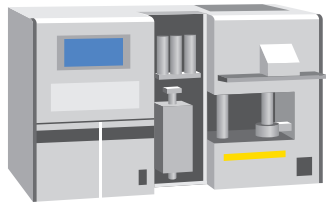
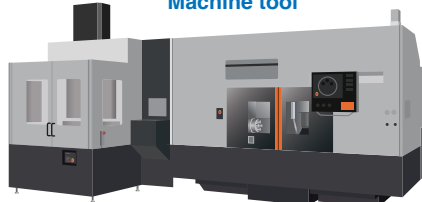
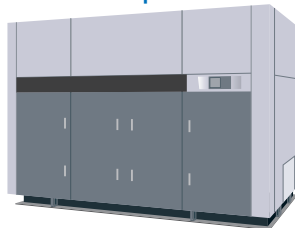
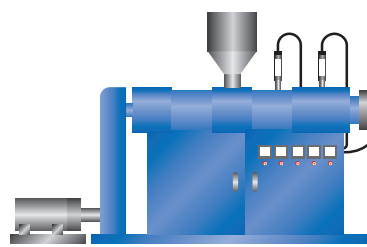
Semiconductor manufacturing process and air conditioning system

Manufacturing business	Semiconductor elements and integrated circuits			PC and Circuit board		LCD display		
	Cylinder cabinet	Gas box	Chemical equipment	Cleaning equipment	Exhaust gas and purge gas	Air conditioning system		
Mounting applications	Gas supply system			Chemicals and ultrapure water	Air conditioning system			
	Pressure gauge/switch, differential pressure gauge/switch			Pressure sensor/differential pressure sensor	Differential pressure			
Application	Pressure gauges for semiconductor industry  • Lineup of sizes Φ28, Φ35, Φ40, Φ50 and Φ60	Pressure switch for semiconductor  • Small, lightweight pressure switch • External adjustment type	Pressure gauge with electric contact  • With reed switch • External adjustment type	Anti-corrosion pressure gauge  • Anti-corrosion pressure gauge using fluorine resin on the wetted parts	Differential pressure switch  • High sensitivity and high reliability • UL certified product (option)	Differential pressure gauge  • High pressure resistance of 200kPa • External zero adjustment	Differential pressure gauge  • Small, lightweight, built-in type	
	ZT11  • Increased safety, explosion proof /non-explosion proof model lineup • Supports absolute pressure range	ZT16  • 1.125 surface mounting interface compatible	ZT17 for high temperatures (200°C compatible)  • Supports measurement of objects up to 200°C • High-precision high-temperature measurement	KL91  • Fluorine resin is laminated in multiple layers on the wetted parts	KL92  • Fluorine resin diaphragm is used in the wetted parts	GC30  • Small size □30 mm • Resolution 0.01Pa (10Pa range)	GC32  • 24 x 48 mm size • Display + switch + analog output	GC62  • Resolution 0.01Pa (10Pa range) • Display + switch + analog output (option)
	EJ95  • Compliant with explosion proof standards of various countries	ZT61  • 1.125 surface mounting interface compatible • Display + switch + analog output	ZT67  • Small size □30 mm	KL95  • Fluorine resin diaphragm is used in the wetted parts	GC63  • Battery powered • Large LCD display	KL14  • With zero adjustment	KL19  • High accuracy ±0.25% F.S.	
								

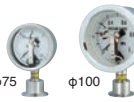
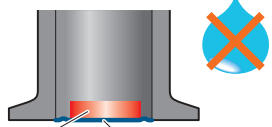
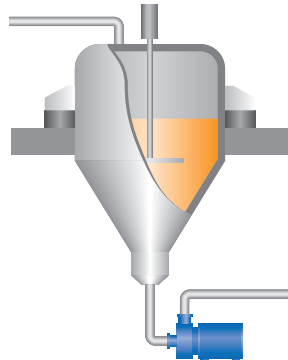
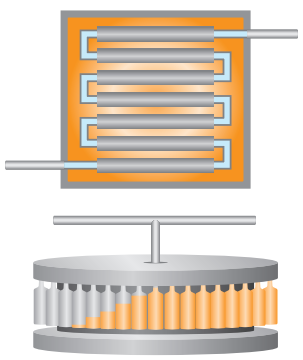
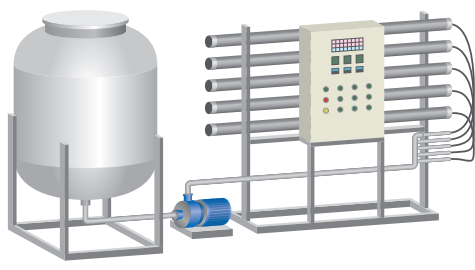
IoT related products

Wireless indicator reading unit / wireless pressure gauge   - Bluetooth output - Battery powered - Can be retrofitted to existing pressure gauges and differential pressure gauges			Wireless pressure gauge  - Bluetooth output - Battery powered			EK30   - Small size □30 mm - High sensitivity with resolution of 0.01Pa - UL certified product			ER63  - LPWA communication - Battery powered		
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FA, Industrial Machinery

Manufacturing business	Hydraulic and Pneumatic equipment					Industrial Machinery	Machine Tools	Automation Equipment	Measuring Instruments			
	Pneumatic Equipment	Vacuum Pumps	Hydraulic Pumps	Injection Molding Machines	NC Lathes	Machining Centers	Engines	Tire Vulcanizing Machines	Gas Chromatographs	Fire Extinguisher Gauges		
Mounting applications	General industrial pressure gauge	Process industrial pressure gauge	Small Pressure Gauges	Stainless type low pressure gauge	Glycerin Bath Type Pressure Gauge	Small Diaphragm-seal type pressure gauge	Fire extinguisher gauges					
	 - Indoor use - φ60 to φ200	 - Outdoor use - φ60 to φ300	 - Small, built-in use - φ40 to φ50	 - Indoor equipment - Size: φ64 to φ200	 - High vibration resistance and durability - φ60 to φ150	 - Small and lightweight - Flat pressure receiving part	 - For mounting on fire extinguishers - Small gauges					
Pressure Gauges/ Switches/ Thermometers/ Switches	Pressure switch	Pressure switch	Pressure gauge with electric contact	Diaphragm-seal pressure gauge for high temperature	Bimetal thermometer	Thermometer	Thermometer with electric contact					
	 - Small, built-in use - For hydraulic equipment	 1 or 2 contacts - Indoor and outdoor lineup	 - Pressure indication + switch - φ75 to φ200	 High temperature compatible: 330°C	 Bimetal type	 - Liquid-Filled type - Supports direct connection/remote measurement	 - Liquid-Filled type - Supports direct connection/remote measurement					
Pressure sensors/switches/differential pressure sensors	EH15	KM18	KM31	KM70	KP15	GC04	GC31					
	 - SUS630/SUS316L - High accuracy: ±0.25% F.S.	 Small, built-in use	 Supports various analog outputs	 Current output compatible	 High accuracy: ±0.25% F.S.	 - High accuracy: ±0.25% F.S. - Battery powered	 - Small size □30 mm - Display + switch + analog output					
Pressure sensors/switches/differential pressure sensors	GC35	GC61	CE15	CE40	GC52	GC55	KF10					
	 - IP67 (IP65 1MPa or less) - Display + switch + analog output (option)	 - IP65 - Display + switch + analog output (option)	 - Small, built-in use - NPN or PNP open collector output	 - Setting via infrared communication - Operation confirmation via LED display	 - SUS316L Liquid-Filled type - Display + analog output	 - Pressure and differential pressure display - Display + switch + analog output (option)	 - Newly developed optical sensor simultaneous pressure and temperature measurement - High temperature resistance: 400°C					
Application	Various analytical equipment / science and chemistry equipment					Machine tool						
	Pressure measurement											
												
	Compressor					Extrusion machine					Cooling machine	
												

Foods, Pharmaceuticals, Cosmetics

Manufacturing business	Foods			Pharmaceuticals			Cosmetics											
	Container filling machines			Tank			Homogenizers			Heat exchangers								
Mounting applications	Sanitary gauges			Glycerin bath type sanitary gauge			Sanitary pressure gauge with electric contact											
	 - Select from standard, heat dissipation fin or heat dissipation tube - High vibration-resistant internal machine specifications (option)			 - Select from standard, heat dissipation fin or heat dissipation tube - Glycerin bath type			 - Select from standard, heat dissipation fin or heat dissipation tube - Pressure indication + switch											
Pressure Gauges/Switches							Thermometers/sensors											
							Sanitary bimetal thermometer			TH72			TH82					
							 Non-filled thermometer			 Small temperature transmitter			 High accuracy: ±0.2% F.S.					
Liquid-Filled type	SN9			SU1			SU8											
	 Display + switch + analog output (option)			 Display + switch + analog output (option)			 - Pressure gauge + analog output - Select from standard or heat dissipation tube											
Small diaphragm							GC51			KJ16			KJ91					
							 - Display + analog output - Combination with small diaphragm			 - Intrinsically safety explosion proof construction - Combination with small diaphragm			 - Intrinsically safety explosion proof construction - Combination with small diaphragm					
Pressure sensors																		
Non-filled type							SU70			SU71			SU75			SU76		
	 In-house manufactured capacitance type pressure sensor Integral structure of the sensor and diaphragm			 - Battery powered - Non-filled, flat pressure receiving part			 - Display + analog output - Non-filled, flat pressure receiving part			 - Wetted parts material: SUS316L, Hastelloy C-22® equivalent selectable - Connection size: 15A to 2S			 - Reduces the effects of condensation - Terminal box structure improves workability					
Application																		
																		

Medical devices

Occlusal force meter*Note



- Dentistry device

Lingual pressure gauge*Note



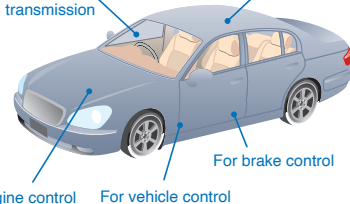
- Measurement of lingual pressure
- High-sensitive pressure measurement with SC sensor
- Transfer of measurement data

Body motion monitor*Note



- Monitoring of infants for SIDS
- Detects body movements with minute pressure differences

Various Mobile Vehicle

Manufacturing business	Automobile					Rail Vehicle					Special Vehicle					Construction Machinery					Transport Machinery					Agricultural Machinery								
	Engine					FCV					Suspension control					Brake					Car Air conditioner					Hydraulic control					Attitude control			
Mounting applications	Process industrial pressure gauge					pressure switch					Duplex pressure gauge					Glycerin bath type pressure gauge					Weight indicator ^{*Note}													
	 - Outdoor facilities - φ60 to φ300					 Small pressure switch					 Railway vehicle air pressure measurement					 RoHS - High vibration resistance and durability - φ60 to φ150					 - Load conversion - Dump truck load capacity													
Pressure sensors	KA36 ^{*Note}  - High pressure (for hydrogen tank pressure) - Medium pressure (for secondary hydrogen pressure)					KA53 ^{*Note}  Air conditioner refrigerant					KA55 ^{*Note}  Gasoline injection																							
	KM25  RoHS - Mass production, small pressure sensor - Pilot pressure, water treatment pump pressure					KM31  CE UK CA RoHS Supports various analog outputs					KM54  RoHS - Mass production, small pressure sensor - Hydraulic pump pressure					KM70  CE UK CA RoHS - Small, built-in use - Current output compatible					KM71  RoHS - Small, built-in use - Hydraulic pump pressure													
Application	Hydraulic excavator pump pressure measurement 					Wheel loader load 					 Pressure sensors for continuously variable transmission Air conditioner sensor Engine control For vehicle control For brake control					For fuel cell vehicles 																		
	Rough terrain crane load monitoring 					Dump truck loaded weight 					 Air pressure monitoring For vehicle control For brake control																							

*Note: User-customized product (photo is for illustrative purposes only)

Pressure calibrators					JCSS calibration available				
ATE2  - Portable high-precision pressure calibrator - Range expandability with removable modules		GC02  - Immediate delivery available - Equipped with a large LCD display - High accuracy: ±0.25% F.S.		GC04  - Immediate delivery available - Battery powered - Master gauge for mechanical pressure gauge		GC15  - Built-in battery - High-precision differential pressure measurement		GC16  - Built-in battery - Compliant with standard pressure gauge specifications for blood pressure monitors - Standard: ±0.1%, high accuracy: ±0.02%	
PC20  - Gas pressure controller - High speed, stable pressure control		PC25/28  - Water pressure controller - High speed, stable pressure control		PC54  - Gas pressure calibrator - Built-in battery and pump		Dead weight tester  - Lineup of hydraulic, pneumatic, and water pressure types - Tabletop and portable types		Floor installation type dead weight tester  Electric weight tester	

Nagano Keiki Group is
a JCSS-certified company that complies with the
international MRA for pressure.

Safe and secure pressure measurement!

Are you measuring the pressure accurately?

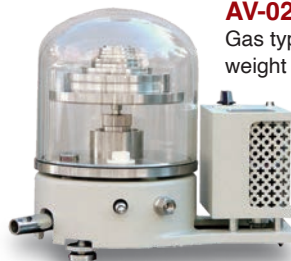
Nagano Keiki Group is a JCSS-certified company that complies with the Measurement Law and international MRA based on ISO/IEC 17025, and provides pressure standards, which are the fundamental technologies for metrology and measurement, to customers in a wide range of industries.

Gas differential pressure of 5Pa to 200kPa has been added to the JCSS calibration business, and we will continue to provide reliable differential pressure measurements in the areas of the "environment, safety, security, and energy conservation".

Global standard for pressure measurement



GC04
Digital pressure gauge with
battery operated



AV-02 type
Gas type high precision dead
weight tester



GC15
Precision digital pressure gauge



PD66
Dead weight tester for
hydraulic (oil)
pressure measurement

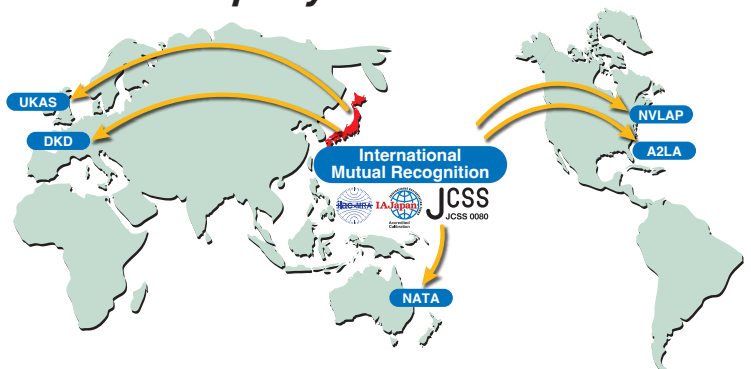


PC54
Pressure calibrator

What is an international MRA-certified company?

JCSS calibration company that are further certified as international MRA-compliant accredited company can issue calibration certificates bearing the internationally recognized ILAC MRA-compliant JCSS accreditation symbol ().

Since IAJapan is a mutually recognized organization between the International Laboratory Accreditation Cooperation (ILAC) and the Asia Pacific Accreditation Cooperation (APAC), the certificates with the ILAC MRA-compliant JCSS accreditation symbol are mutually accepted in the United States (NVLAP, 2LA), the United Kingdom (UKAS), Germany (DKD), Australia (NATA) and other countries.



JCSS calibration by Nagano Keiki Group

Not only can it measure traceable pressure values in accordance with national metrology standards, it can also prove metrological traceability.

[What is JCSS?]

This system was established in accordance with Chapter 8 of the Measurement Law to ensure measurement traceability.

The certification body, National Institute of Technology and Evaluation IAJapan examines and certifies whether the technical capabilities and traceability of businesses that calibrate measuring instruments meet the international standard ISO/IEC17025 (JIS Q 17025).

Calibration range

Equipment type		Calibration range		
		Nagano Keiki	Futaba Sokki	NAGANO KEISO
Weight type pressure balance	Gas absolute pressure	10kPa to 350kPa	5kPa to 350kPa	—
	Gas gauge pressure	0.01MPa to 7MPa	-90kPa to 7000kPa	2kPa to 2MPa
	Liquid gauge pressure	0.2MPa to 500MPa	1MPa to 500MPa	0.2MPa to 200MPa
Digital pressure gauge	Gas absolute pressure	5kPa to 350kPa	5kPa to 7000kPa	2kPa to 2MPa
	Gas gauge pressure	-80kPa to 7MPa	-90kPa to 7000kPa	-90kPa to 2MPa
	Gas differential pressure	5Pa to 200kPa	—	10Pa to 1.0MPa
	Liquid gauge pressure	1MPa to 500MPa	1MPa to 500MPa	0.2MPa to 200MPa
Mechanical pressure gauge	Gas absolute pressure	5kPa to 350kPa	—	5kPa to 2MPa
	Gas gauge pressure	-80kPa to 7MPa	5kPa to 7000kPa	-90kPa to 2MPa
	Gas differential pressure	0.01MPa to 0.2MPa	—	20Pa to 1.5MPa
	Liquid gauge pressure	1MPa to 500MPa	1MPa to 500MPa	0.2MPa to 200MPa
Liquid column pressure gauge	Water column gauge pressure	—	5kPa to 20kPa	2kPa to 20kPa
	Mercury column gauge pressure	—	5kPa to 200kPa	—

Repair/Maintenance/Calibration services

NAGANO KEISO CO., LTD. provides various services for the pressure standards you are using.

NAGANO KEISO CO., LTD.

Head Office: Tokyo Sales Office

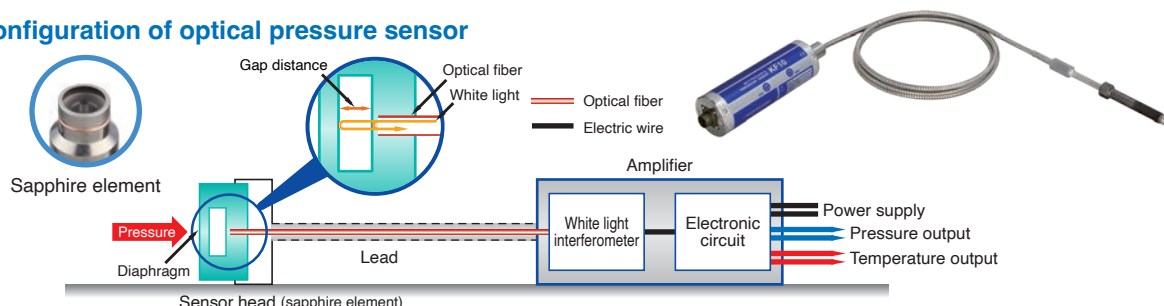
1-30-4 Higashi Magome, Ota-ku, Tokyo 143-0022 (Nagano Keiki Building)

Phone: 03-5718-3281 (main)

Fax: 03-5718-0238

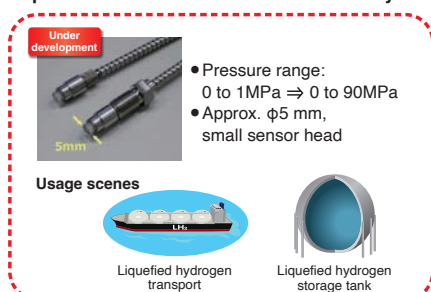
A new "Optical" pressure measurement technology, capable of withstanding extreme environments, has been added!

• Configuration of optical pressure sensor

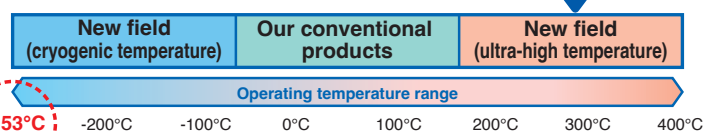


When pressure is applied to the diaphragm, the distance of the space (gap) formed within the sapphire element changes. White light emitted from the amplifier's light source is reflected by the sapphire element and measured by the interferometer inside the amplifier, which converts the gap change into a pressure value.

Developing a liquid hydrogen (cryogenic) measurement product to realize a sustainable society



*Note: User-customized product (photo is for illustrative purposes only)



The operating temperature range is significantly wider than conventional products, making it possible to measure pressure in extreme environments.

Commercialized as KF10 optical molten resin pressure /temperature sensor

• Ueda Measuring Instruments Factory



The largest mechanical pressure gauge factory in the country

It mainly supplies mechanical pressure gauges, pressure switches, and thermometers to all industrial uses, occupying 60% of domestic market share. It also provides calibration services that conform to international standards.

• Maruko Electronic Instruments Factory



Pressure sensor factory with the world's largest production capacity

It mainly supplies pressure sensor developed in-house, applying elements ranging from extra-high pressure to ultra-low pressure for various industrial equipment. It delivers superior products and creative technologies to the global market.

• Nagano Keiki Technical Solutions Center



Research and development base to create new values of measurement business

It was established as a research and development base for developing new businesses. It is responsible for exploration and commercialization in new business areas. There is also a product display area and a history room where you can see the history of Nagano Keiki.

The contents in the catalog are subject to change without notice.

NAGANO KEIKI

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