

DAHO Company Profile

We pursuit of the best quality
based on principles & trust for what we make



DAHO TRONIC LIMITED

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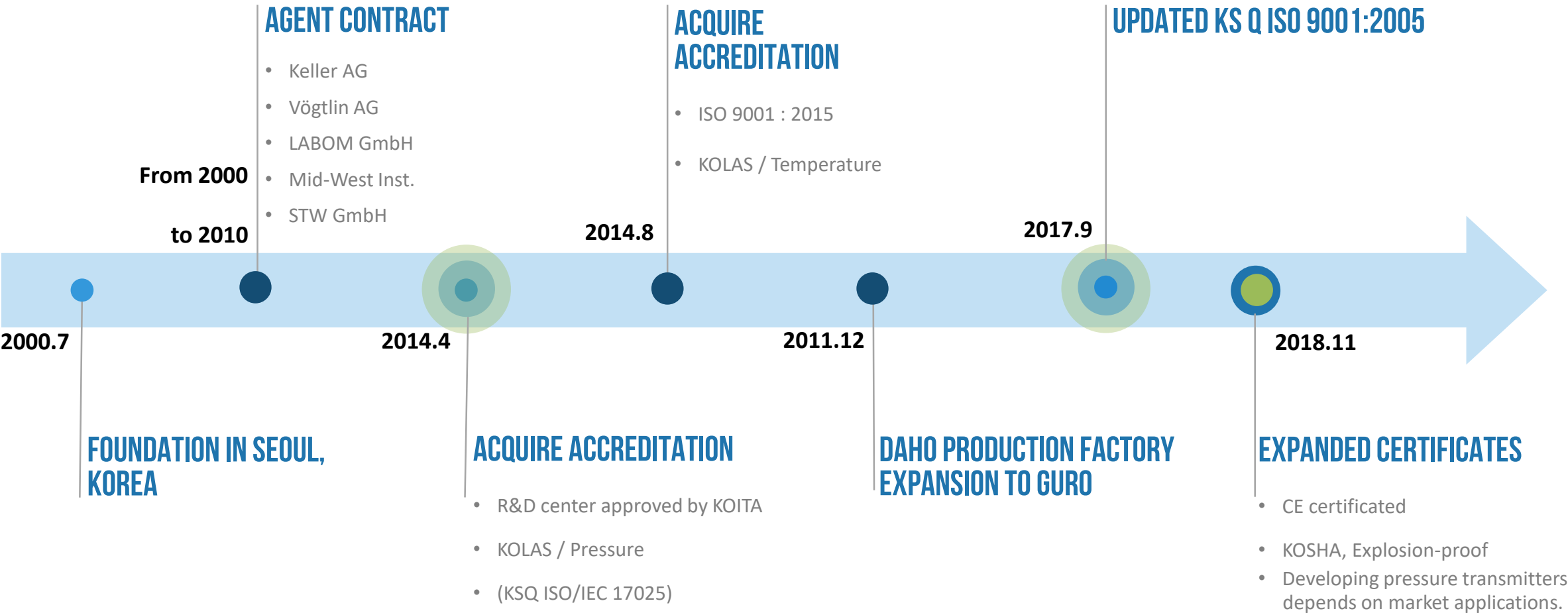


<https://www.daho.co.kr>



Milestone

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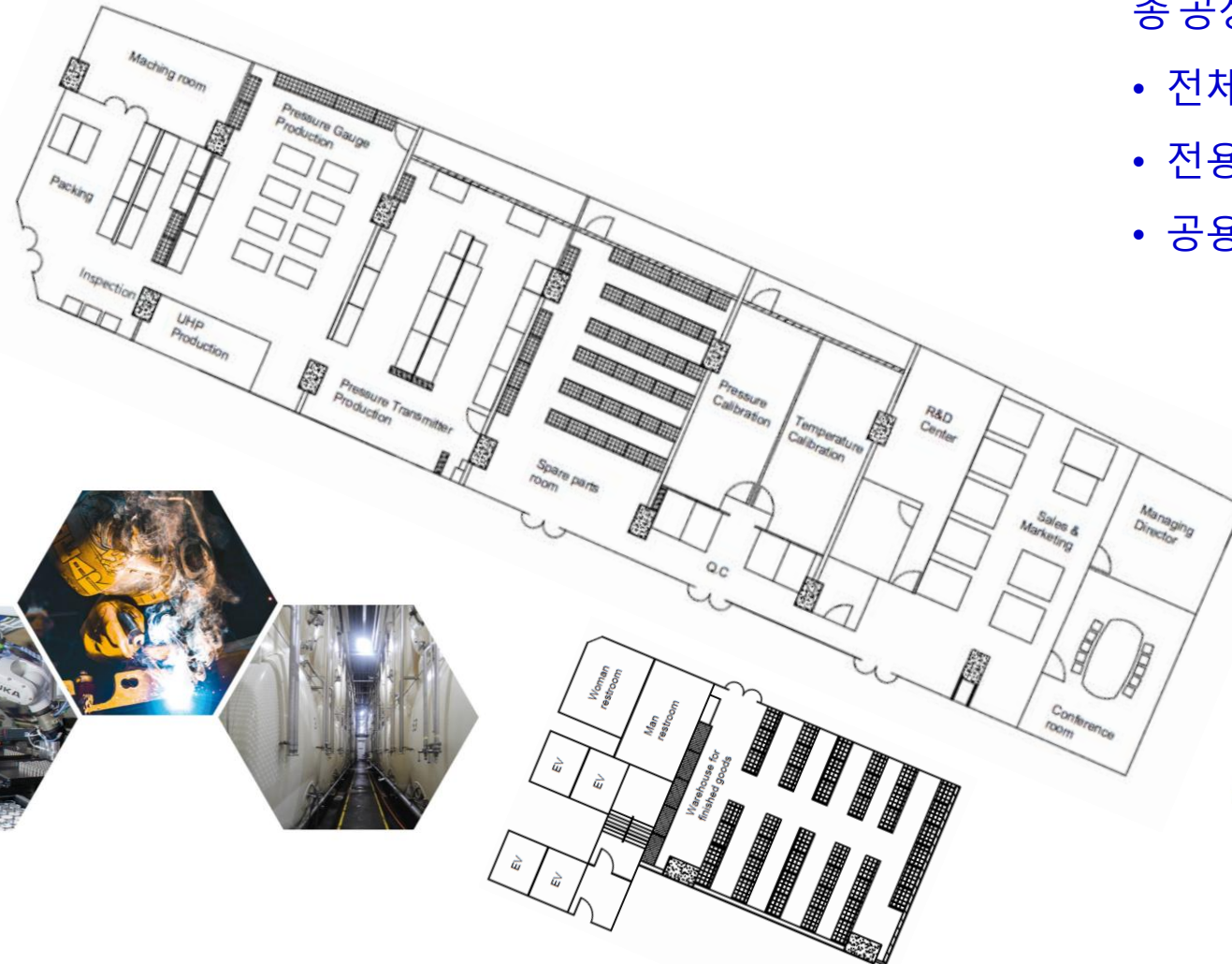
Milestone

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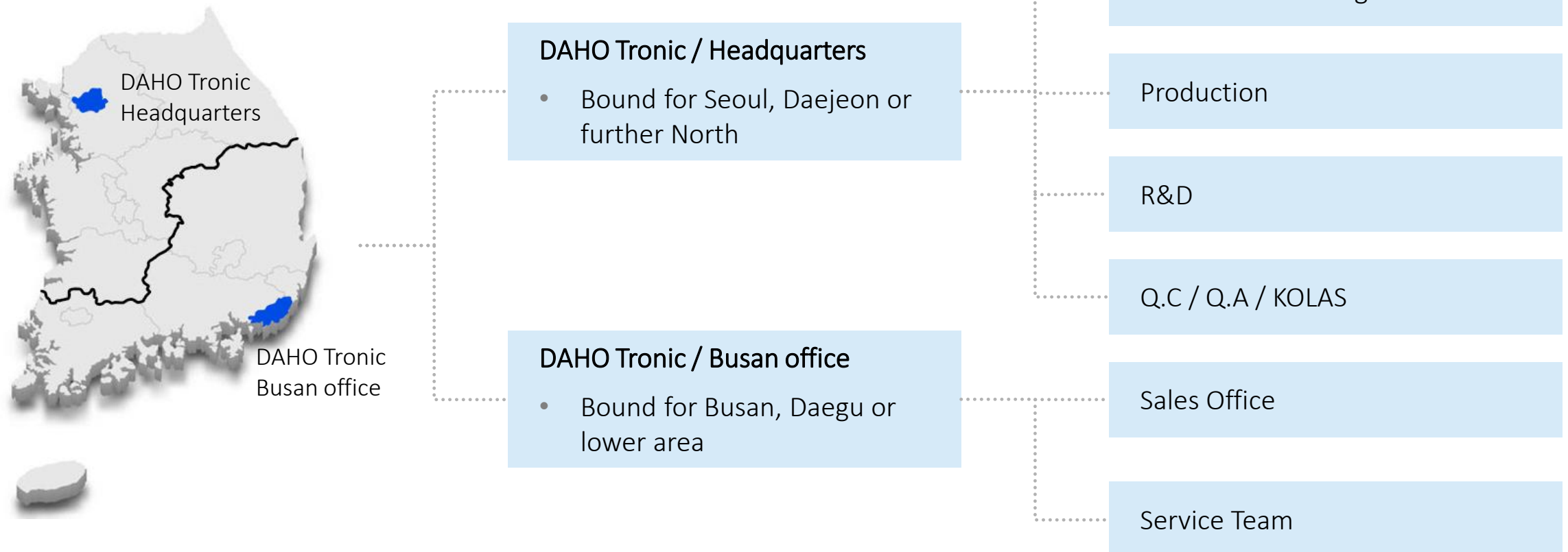
총 공장 면적

- 전체면적: 1,470.88 m² / 445.7 평
- 전용면적: 749.06 m² / 226.99 평
- 공용면적: 726.90 m² / 220.27 평



Organisation

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Core formation

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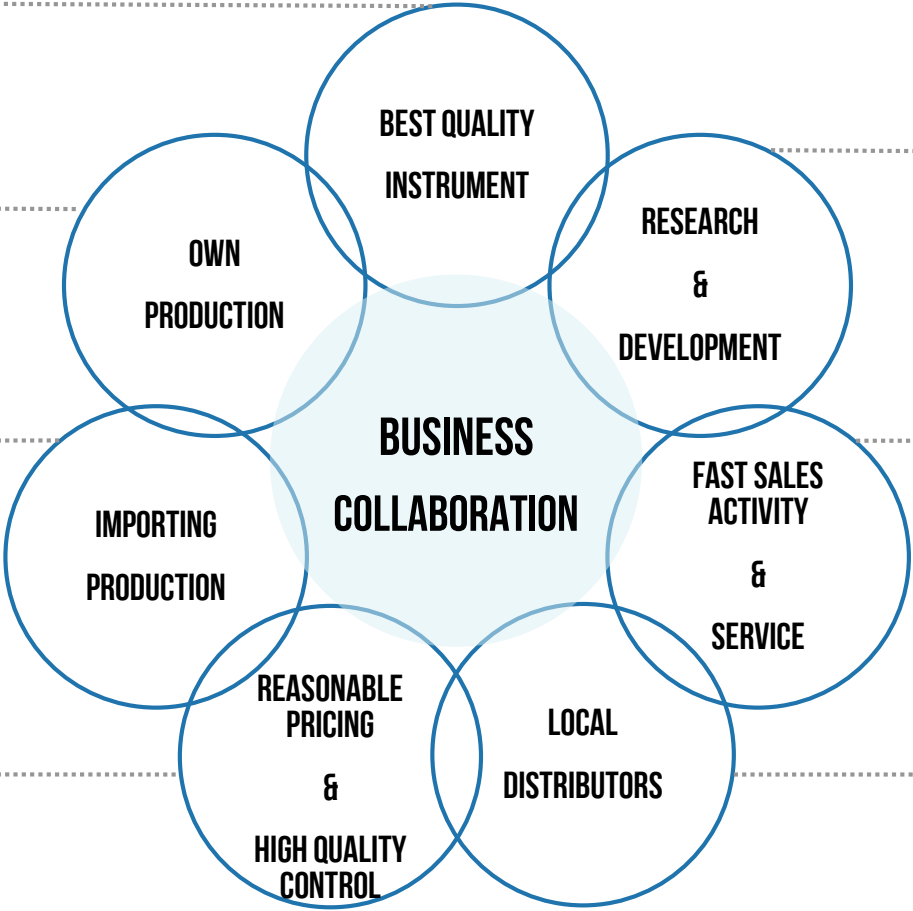


Development for aggressive fields
Against noise, surge, burst

Standard production program

Customized products
& market batches

Customer's requirement
with special specifications



Research for market segment
And applications

Closed relationship with

- Local partners
- Overseas partners
- End users

Support, Solution & Suggestion
to hard problems and difficult.
Environment for measurement

연구개발범위



- Analogue Output Signal
 - 4...20mA
 - 0...10V, 0...5V, 1...5V, 0.5...4.5V
 - 0.5...4.5V / 5V, ratio-metric
- Communication
 - RS485
 - IoT
- Switches with functions
 - 2 switches, signal
 - LED indication
 - Simply operation
- Electrical protection
Emission and immunity according to
 - EN 61326-2-3:20B CCISPR II Group 1, / Class A
 - EN 61326-2-3:2013 / IEC 61326-1:2012v
- Very excellent precisely accuracy & quality
 - Noise
 - Burst
 - Surge

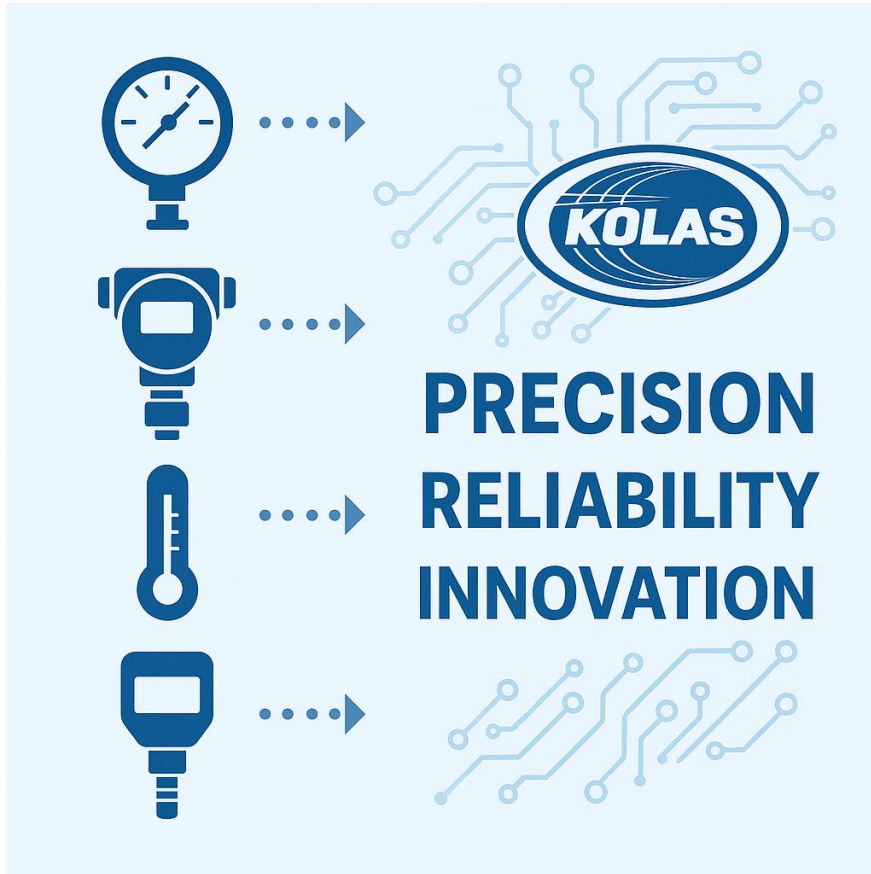
응용개발범위확대

- Semiconductor Industry
 - Ultra High Purity pressure transmitters
 - various VCR connections

- Shipbuilding industry
 - DNV_GL, BV, ABS, KR certificates
 - Pressure transmitters
 - Pressure switches

- Hydrogen application
 - Hydrogen transportation
 - Hydrogen stations
 - Hydrogen automobile





ISO9001:2015
CERTIFIED

압력 교정 범위

교정항목	측정범위	
액주형 압력계	0...100 kPa	
절대압력계	0.01...7 MPa	
연성압력계	-0.09...7 MPa	
차압계	-0.09...7 MPa	
게이지압용 압력계	0...400 MPa	
다이얼형 진공계	-90...0 kPa	
압력변환기 / 전송기	절대압	0.01...7 MPa
	게이지압	-0.09...400 MPa

(주)다호트로닉은 압력 및 온도 분야에서 전문화된 최정에 기술요원들이 최신 최고 정밀급 교정장비를 활용하여, 압력 및 온도 분야의 교정기관을 운영하며 국내외 산업체에 보다 정확한 측정 품질을 제공합니다.

DAHOTRONIC Co., Ltd. specializes in pressure and temperature fields, with a team of highly skilled technicians using the latest high-precision calibration equipment. We operate a calibration facility for pressure and temperature, providing more accurate measurement quality to domestic and international industries.

온도교정 범위

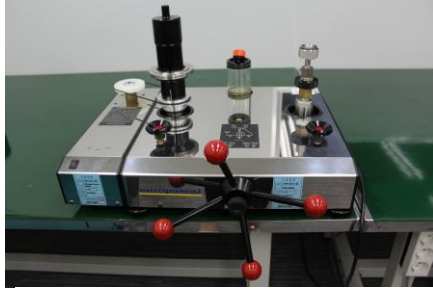
교정항목	측정범위
온도발생장치 : 오븐, 액체 항온조, 드라이블럭 교정기, 전기로	-39...1100 °C
온도지시계	-39...1100 °C
유리제 온도계	-39...250 °C
저항식 온도계	-39...500 °C
열팽창식 온도계 : 바이메탈 온도계, 기체 또는 액체 충만식 온도계	-39...500 °C
열전대	-39...1100 °C
온도변환기 (온도 트랜스미터)	-39...1100 °C



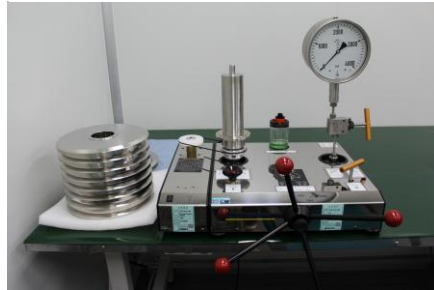
압력 교정장비 소개



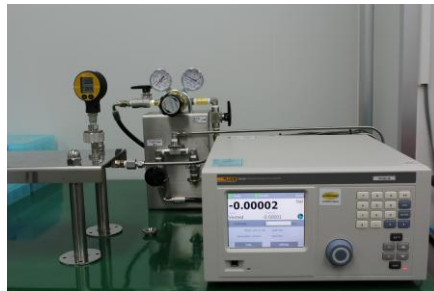
Europascal
Pneumatic DWT-BA2-70
Max. 70bar



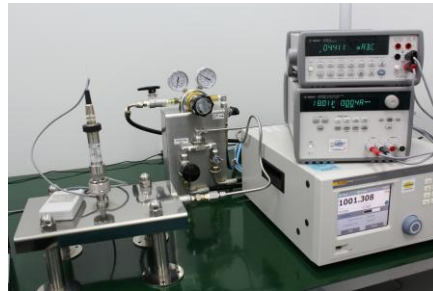
Europascal
Hydraulic DWT-BH2-D-1200
Max. 1200bar



Europascal
Hydraulic DWT-BH2-4000
Max. 4,000bar



Fluke Controller
PPC4EX-7M
7MPa & 700kPa / 0.005% of F.S



Fluke Controller
PPC4EX-100K
±5kPa & 200kPa abs / 0.005% of F.S

온도 교정장비 소개



Fluke 1586A/1DS
Precision temperature
scanner



Fluke 7381 -80°C to 110 °C
Fluke 6331 40 °C to 300 °C
Deep-well compact bath



Fluke 7526A
Precision process callibrator



Fluke 1594A
Thermometry bridge



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Fluke 9118A
300 °C to 1200 °C



ISO TECH B11-50-270
Water triple point cell



AccuMac 1760-20
Range: -200°C to 670°C
Secondary standard PRT



AccuMac 1860-25
Range: -200°C to 670°C
Standard platinum
Resistance thermometer

Daho Tronic Ltd. - Company

Business Category



A. BUSINESS & PARTNERS

[사업범위 & 국.내외 대리점]

- 1) Production Program
 - Mechanical Pressure Gauges
 - Electronic Pressure Transmitters
 - Customized OEM Development
- 2) With Local Dealers
 - Major Distributors
 - Local Distributors
 - Registered End-users
- 3) Overseas Partners
 - South East Asia
 - Europe
 - Middle Asia

B. COMPANY INSTITUTE

[기술연구소]

- 1) Pressure Sensor Module
- 2) Electronics
 - Electronic Circuit
 - Excellent Protection Technology against
 - Noise
 - Burst
 - Surge
- 3) Accuracy
 - Higher than 0.1%/0.05%
- 4) Analog Output
 - 4...20mA
 - 0...10V, 0...5V, 1...5V
 - 0.5...4.5V/5V, ratiometric
- 4) Communications
 - RS485
 - IoT

C. KOLAS

[국제공인교정기관]

- 1) Pressure Instrument
 - Pressure Gauges from 25mbar to 4000 bar
 - Pressure Transmitters from 10mbar to 2000 bar
- 2) Temperature Instrument
 - Measurement from -40°C to 1400°C
 - Temperature Gauges
 - Electronics Temperature Sensors

D. OVERSEAS BUSINESS

[해외비즈니스]

- 1) Importing Partners
 - Keller AG/ Switzerland
 - Metallux AG
 - LABOM
 - STW
 - Vögtlin
 - Mid-West Inst.
- 2) Exporting Partners
 - South East Asia
 - Middle Asia
 - Europe

E. MAJOR MARKET SEGMENT

[주요적용산업]

- Semiconductor Industry
 - UHP pressure inst.
 - Scrubber Machines
- Heavy Industry
 - Shipbuilding Ind.
 - Transformers
- Automobile Industry
 - Fuel Cell
 - Secondary Battery
 - Hydrogen
- Medicine & Pharmaceutical
- Food & Beverage Industry
- Hydraulic & Pneumatic
- Petro-/Chemical Ind.
- Machinery
- Energy & Power Ind.

Worldwide Business Partners

*Piezoresistive Silicon Pressure Sensors
Switzerland*

*Pressure & Temperature
Total Instrument
Germany*

*Differential
Pressure Gauges & Pressure Transmitters
U.S.A*



Labom

vögtlin
instruments

DAHO

Mid-West
Instrument



METALLUX

STW

*Air / Gases Mass Flow Meter / Controllers
Digital communications
Switzerland*

*Piezoresistive Ceramic Pressure Sensors
Switzerland*

*Thin-film Technology Pressure Sensors
Germany*

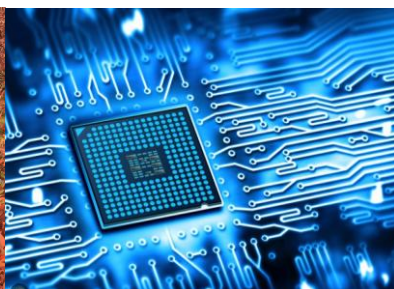
Market Segments / Applications



Oil & Gas



Transportation



Semiconductor



Automobile



Machinery



Shipbuilding



Pneumatic & Hydraulic



Petro-/Chemical



Food & Beverage



Pharmaceutical



Water Treatment



Power & Energy

Product Overview

Pressure gauges



Model	MBS	MBX	MAX	MSP	MCL	MDL	MMS / Magnetic switches	MIS / Inductive switches	MGD
Size	40,50,63,80,100mm	63, 100mm	40,50,63,80,100mm	100mm	100mm	100mm	100mm	100mm	100mm
Pressure range	-1...0 bar to 0...400 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar (upto 4000bar)	-1...0 bar to 0...1000 bar	0...25 mbar to 0...600 mbar	0...16 mbar to 0...1000 mbar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	0...1.6 bar to 0...25 mbar
Accuracy	2.5%, 1.6% FS	2.5%, 1.6% FS	2.5%, 1.6%, 1.0% FS	1.0% FS	1.6%(≥ 40 mbar),	1.6%, 2.5%,	1.0%,	1.0%,	1.0%,
Special characteristic	Black steel case	Wetted part: Brass	Wetted part: St. steel	Wetted part: St. steel	Element type: Capsule	With Diaphragm flange	Magnetic / inductive	Magnetic / inductive	For SF6 Gas Density Monitoring



Model	MSA (Hygienic application) with sanitary diaphragms	MDB	MDI	MDF	Chemical seals assembled with - MAX series: 63, 80,100 mm - Pressure transmitters EDN.305 & others				
Concept		Diaphragm with thread connection	Double process flange with diaphragm	Process flanges with diaphragm					
Pressure range	-1...0 bar to 0...40 bar	-1...0 bar to 0...40 bar	-1...0 bar to 0...40 bar	-1...0 bar to 0...40 bar					
Accuracy	1.0% FS	1.0% FS	1.0% FS	1.0% FS					
Process connection	1S, 1.5S, 2S, 2.5S, 3S, 3.5S	G1/2", G3/8", R1/2", G1/4", on request	based on standard DIN/EN, ISO & JIS	based on standard DIN/EN, ISO & JIS					

Pressure transmitters for various applications



								
Model	EDN.305	EDN.310	EDN.303	EDN.301	EDN.320 (with flush diaphragm)	EDN.324	EDN.331	EDA.338
Accuracy	0.5%	0.5%, 0.25%	0.25%	0.15%	0.5%	0.5%	0.5%	(Zero & Span adjustment) 0.5%
Pressure range	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...250 bar	± 10 mbar to 0...1000 mbar	-1...0 bar to 0...1000 bar	0...10 bar, 16bar, 25bar
Output signal								
Application	For industrial use	Mass quantity & OEM	For industrial use	Precision measurement	For high viscosity	Very low pressure measurement	For outdoor installation	For BOU system of train

								
Model	EDN.332	EDN.334	EDN.335	EDN.336	EDN.337	EDN.342	EDN.350	EDR.321
Accuracy	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%, 0.25%	0.5%
Pressure range	0...10 bar, 16 bar, 25 bar	-1...0 bar, 0...10 bar, 16 bar, 25 bar	±25, ±50, ±100, ±250, ±500 mbar,	0...2 bar to 0...160 bar,	0...4 bar to 0...250 bar,	-1...0 bar to 0...1000 bar	from 0...20 mbar to 0...16 bar	0...4 bar to 0...250 bar,
Output signal								Output 0.5...4.5 / 5V ratio-metric
Application	For pump system	For compressor system	For scrubber machine	For HVAC (heating & cooling system)	For heating & refrigeration (heating & cooling system)	For tire industry	Differential pressure transmitter	For heating & refrigeration (heating & cooling system)

Pressure transmitters for various materials & all st. steel



Model	EDN.313	EDN.339	EDN.314	EDN.315 (a/w MDB)	EDN.316 (a/w MDF)	EDN.317 (a/w MDI)	EDN.365	EDN.363	EDN.361
Accuracy	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.25%	0.15%
Pressure range	0...100 mbar to 0...40 bar	0...100 mbar to 0...40 bar	0...400 bar to 0...2000 bar	0...200 mbar to 0...100 bar	0...200 mbar to 0...100 bar	0...200 mbar to 0...100 bar	0...10 mbar to 0...30 bar	0...10 mbar to 0...30 bar	0...10 mbar to 0...30 bar
Output signal									
Application	For hygienic applications	For High Temperature Various Cooling Elements (up to 200°C, cooling device)	For homogenizer applications	Threaded type connection a/w diaphragm internally	Process-flange diaphragm. Various material diaphragms	Double process-flange a/w diaphragm internally	General water & fuel level measurement	High-qualified level measurement	High-accuracy level measurement



Model	EDN.610	EDN.630	EDN.620	EDN.613	EDN.614	EDN.615 (a/w MDB)	EDN.616 (a/w MDF)	EDN.617 (a/w MDI)	EDN.650
Accuracy	0.35%, 0.25%, 0.15%	0.35%, 0.25%, 0.15%	0.5%, 0.25%, 0.15%	0.5%, 0.25%, 0.15%	0.5%	0.5%	0.5%	0.5%	0.5%
Pressure range	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1050 bar	-1...0 bar to 0...1000 bar	0...40 bar	-1...0 bar to 0...1000 bar	0...250 bar	0...250 bar	0...250 bar	0...20 mbar to 0...20 bar
Output signal									
Application	General explosion flameproof	for Hydrogen flameproof explosion / gold plated.	with flush diaphragm for viscosity media	Flameproof explosion For hygienic applications	For homogenizers	Various threaded design a/w diaphragm internally	Process-flange diaphragm a/w various diaphragm	Double process-flange a/w diaphragm internally	Differential pressure transmitter
내압방폭 Ex d IIC T6									
		수소내압방폭 / Ex d IIB+H2							

Pressure transmitters

- st. steel housing
- Aluminium housing



All st. steel housing pressure transmitters with digital display

								 Specs vary by accuracy.		
Model	EDN.710	EDN.720	EDN.730	EDN.715 (a/w MDB)	EDN.716 (a/w MDF)	EDN.717 (a/w MDI)	EDN.750	EDN.765	EDN.763	EDN.762
Accuracy	0.35%	0.35%, 0.25%, 0.15%	0.35%	0.35%	0.35%	0.35%	0.5%	0.5%	0.25%	0.15%
Pressure range	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1050 bar	0...250 bar	upto 0...250 bar	upto 0...250 bar	from 0...20 mbar to 0...20 bar	from 0...10 mbar to 0...30 bar	from 0...10 mbar to 0...30 bar	from 0...10 mbar to 0...30 bar
Application	For Semiconductor industry	with flush diaphragm For viscosity application	Gold plated sensors For Hydrogen	For processor industry	Process-flange diaphragm. Aggressive environments	Double process-flange a/w diaphragm internally	Differential pressure transmitter with LCD monitoring	water & fuel level measurement with LCD monitoring		

Aluminum housing pressure transmitters

							COMING SOON	 Specs vary by accuracy.		
Model	EDN.810	EDN.820	EDN.830	EDN.815 (a/w MDB)	EDN.816 (a/w MDF)	EDN.817 (a/w MDI)	EDN.850	EDN.765	EDN.763	EDN.762
Accuracy	0.35%	0.35%, 0.25%, 0.15%	0.35%	0.35%	0.35%	0.35%	0.5%	0.5%	0.25%	0.15%
Pressure range	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1000 bar	-1...0 bar to 0...1050 bar	0...250 bar	upto 0...250 bar	upto 0...250 bar	from 0...20 mbar to 0...20 bar	from 0...10 mbar to 0...30 bar	from 0...10 mbar to 0...30 bar	from 0...10 mbar to 0...30 bar
Output signal										
Application	For process industry	with flush diaphragm For viscosity applications	Gold plated sensors For Hydrogen	For process ind.	Process-flange diaphragm for aggressive environments	Double process-flange a/w diaphragm internally	Differential pressure transmitter With LCD monitoring	water & fuel level measurement with LCD monitoring		

Digital Pressure Gauges

Model	ODi-3G	ODi-4G	ODi-4H	ODi-5G	ODi-5H	ODi-5P	ODi-5PH	ODi-5P and Odi-5PH include a plastic case.
Size	63mm, 4.5 Digit	63mm, 4.5 Digit	80mm, 4.5 Digit	100mm, 5 Digit	100mm, 5 Digit	100mm, 5 Digit	100mm, 5 Digit	
Display								
Pressure range	-1...0 bar to 0...250 bar	0...100 mbar to 0...600 bar	0...100 mbar to 0...600 bar	0...100 mbar to 0...600 bar	-1...0 bar to 0...600 bar	-1...0 bar to 0...600 bar	-1...0 bar to 0...600 bar	
Accuracy	1.0% FS	0.4% FS	0.2% FS	0.4% FS	0.2% FS	0.1% FS	0.05% FS	
Function	Zero offset	Zero offset	Zero offset	Zero offset, Min.,Max., Bar graph	Zero offset, Min.,Max., Bar graph	Zero offset, Min.,Max., Bar graph	RS485, Auto-electro magnetic interface	

Temperature gauges

Model	TBS	TBA (Every Angle)	TGS	TGC (Capillary)
Type	Bimetal Temperature gauge	Bimetal Temperature gauge	Gas Expansion Thermometer	Gas Expansion Thermometer
size	100mm	100mm	100mm	100mm
Temperature range	-20...40 to 0...600 °C	-20...40 to 0...600 °C	-20...40 to 0...600 °C	-20...40 to 0...600 °C
Accuracy	2.0% FS	2.0% FS	2.0% FS	2.0% FS
Stem diameter	6.4mm, 8mm	6.4mm, 8mm	6.4mm, 8mm	6.4mm, 8mm

Temperature Sensors

Model	TRS(백금저항온도센서)	TCS (열전대)	TRH(백금저항온도센서)	TCH (열전대)
Type	RTD Sensor Pt 100 Ω	Thermocouple(Type K, J, E, N, T)	RTD Sensor Pt 100 Ω	Thermocouple(Type K, J, E, N, T)
Stem length	100...1100mm	On request	100...1100mm	On request
Temperature range	-196...600 °C	-40...1200 °C	-196...600 °C	-40...1200 °C
Accuracy	(option, upto 800 °C)	Class 1, Class 2	(option, upto 800 °C)	Class 1, Class 2
Stem diameter	Class A, Class B 6mm, 8mm	6mm, 8mm	Class A, Class B 6mm, 8mm	6mm, 8mm



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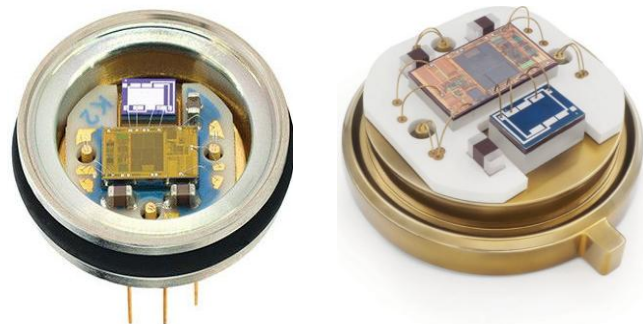
Pressure Transmitters

									
Model	Series 4LC	Series 9FLC	Series 9LD	Series 9FLD	Series 6LHPD	Series 7LHPD	Series 9LD-Ei	Series 9FLD-Ei	Series 10LX
Pressure Ranges	0...3 to 0...200 bar	0...1 to 0...50 bar	0...1 to 0...200 bar	0...1 to 0...30 bar	0...400 to 0...1000 bar	0...400 to 0...1000 bar	0...1 to 0...200 bar	0...1 to 0...30 bar	0...0.3 to 0...200 bar
Accuracy	± 0.25 %FS	± 0.25 %FS	± 0.15 %FS	± 0.15 %FS	± 0.15 %FS	± 0.15 %FS	± 0.15 %FS	± 0.15 %FS	± 0.05 %FS
Total Error Band	± 1.0 %FS @ 0...50 °C	± 0.8 %FS @ -10...80 °C	± 0.7 %FS @ -10...80 °C	± 0.7 %FS @ -10...80 °C	± 1.0 %FS @ -10...80 °C	± 1.0 %FS @ -10...80 °C	± 0.7 %FS @ -10...80 °C	± 0.7 %FS @ -10...80 °C	± 0.1 %FS @ -10...80 °C
Interfaces	0.5...4.5 V ratiom.	0.5...4.5 V ratiom.	I2C	I2C	I2C	I2C	I2C	I2C	RS485, 4...20 mA, 0...10 V
Temperature Range			-40...110 °C				-40...110 °C		
Dimensions	∅ 11 mm x 4.2 mm	∅ 17 mm x 5.5 mm	∅ 19 mm x 5 mm	∅ 17 mm x 5.5 mm	∅ 13 mm x 8 mm	∅ 15 mm x 8 mm	∅ 19 mm x 5 mm	∅ 17 mm x 5,5 mm	∅ 19 mm x 57...96 mm

CIO [Chip In Oil] Technology

칩 인 오일 기술을 통해 신호 컨디셔닝 칩은 오일이 채워진 금속 하우징 내부의 압력 센서 칩 바로 옆에 보관됩니다. 외부 전자 장치가 없기 때문에 더 컴팩트한 구조가 가능하며, 습기, 진동, 충격 및 전자기 간섭과 같은 환경적 영향에 대해 매우 견고합니다.

With chip-in-oil technology, the signal conditioning chip is housed directly next to the pressure sensor chip inside the oil-filled metal housing. As there are no external electronics, more compact constructions are possible, and the products are extremely robust against environmental influences such as moisture, vibrations, shocks and electromagnetic interference.



Model	Series PD-10L	PD-10LHP
Pressure Ranges	0...0.1 to 0...30 bar	0...0.1 to 0...30 bar
Line Pressure	200 bar	600 bar
Accuracy	± 0.25 %FS	± 0.25 %FS
Long Term Stability	± 0.15 %FS	± 0.15 %FS
Dimensions	∅ 19 mm x 26 mm	∅ 19 mm x 26 mm
Temperature Range	-40...125 °C	-40...125 °C



KELLER Switzerland

DAHO

Pressure Transmitters

H₂, Hydrogen Application

								
Model	Series 21Y	Series 23SY	Series 23SY-H2	Series 23SX	Series 33X	Series 35X	Series 41X	Series PD-33X
Pressure Ranges	0...2 to 0...1000 bar	0...0,1 to 0...1000 bar	0...0,1 to 0...1000 bar	0...0,1 to 0...1000 bar	0...0.3 to 0...1000 bar	0...0.3 to 0...1000 bar	0...0.03 to 0...0.3 bar	0...3 to 0...1000 bar
Accuracy	± 0,5 % FS	± 0,25 % FS	± 0,25 % FS	± 0,1 % FS	± 0,05 % FS	± 0,05 % FS	± 0,1 % FS	± 0,05 % FS
Total Error Band	± 1,5 % FS @ 10...80 °C	± 0,7 % FS @ -10...80 °C	TEB: ± 0,7 % FS @ -10...80 °C	TEB: ± 0,7 % FS @ -10...80 °C	TEB: ± 0,1 % FS @ -10...80 °C	TEB: ± 0,1 % FS @ -10...80 °C	± 0,2 % FS @ 10...50 °C	TEB: ± 0,1 % FS @ -10...80 °C
Interfaces	4...20 mA, 0...10 V	4...20 mA, 0...10 V	4...20 mA, 0...10 V	4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V
Temperature Range	-40...125 °C	-40...125 °C	-40...125 °C	-20...125 °C	-40...125 °C	-40...125 °C	-20...80 °C	-40...100 °C

Digital manometers

								
Model	ECO2	LEO2	LEO1	LEX1	LEO-Record	LEO5	LEO3	Soft carrying case
Display	4 Digit	4 Digit	4 Digit	5 Digit	5 Digit	5 Digit	5 Digit	309030.0003
Pressure range	0...31 bar to 0...300 bar	0...4 bar to 0...700 bar	-1...3 bar to 0...1000 bar	-1...1 bar to 0...1000 bar	-1...3 bar to 0...1000 bar	-1...1 bar to 0...1000 bar	-1...3 bar to 0...1000 bar	
Accuracy	0.5% FS	0.1% FS	0.1% FS	0.05% FS	0.1% FS	0.05% FS	0.1% FS	
Function	Zero offset Compact and economical	Zero offset Compact and precise	Zero offset Peak recording	Zero offset Precision of upto 0.01% FS	Zero offset Measured value recording	Zero offset All-rounder Data logging	Zero offset RS485, 4...20mA	



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Level Probes

			
Model	Series 26Y	Series 36XW	Series 46X
Pressure Ranges	0...0,1 to 0...10 bar	0...0,3 to 0...30 bar	0...0,03 to 0...0,3 bar
Accuracy	± 0,25 %FS	± 0,05 %FS	± 0,1 %FS
Total Error Band	± 0,5 %FS @ 0...50 °C	± 0,1 %FS @ 0...50 °C	± 0,2 %FS @ 10...50 °C
Interfaces	4...20 mA	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V
Special Characteristics	Compact design	Optimum accuracy	Ceramic measuring cell

Data Loggers

	
Model	DCX-22
Pressure Ranges	0...10 to 0...100 mH ₂ O
Total Error Band	± 0,1 %FS @ -10...40 °C
Reading Capacity	114'000 measuring points
Dimensions	ø 22 mm
Special Characteristics	Available in different versions

In space



Differential Pressure Transmitters

				
Model	PD-23	PD-33X	PD-39X	PD-41X
Accuracy	0.5% FS	0.05% FS	0.05% FS	0.05% FS
Line Pressure	200bar	200bar / 600bar	0...3bar to 0...300bar	0...0.03bar to 0...0.3bar
Interfaces	4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V	RS485, 4...20 mA, 0...10 V

Calibrators & Pumps

			
Model	MPX	HPX	Hand pump K/P
Pressure Ranges	-0.85...25 bar	0...700 bar	-0.85...25 bar
Accuracy	± 0,05 %FS	± 0,05 %FS	± 0,25 %FS
Special feature	For air pressure RS485	For hydraulic oil RS485	Pneumatic hand pump Medium: Air



Ceramic Pressure Sensors



Model	ME500	ME600	ME800	ME900	ME506	ME782
Pressure range (bar)	0,5-1-2-5-10-20-50	2-5-10-20-50-100-200-250-400-600	4-10-16-25-40	10-20-50-100	1-2-5-10-20	0,5-1-2-5-10-20-50-100-200-250-400-600
Pressure range (psi)	7-14-29-73-145-290-725	29-73-145-290-725-1450-2900-3625-5800-8500-11600	58-145-232-362-580	150-300-750-1500	7-14-29-72-145-290	7,5-15-30-100-150-400-1000-1500-3000-4000-5000-8500
Pressure type	Absolute, Gauge, Sealed Gauge	Gauge	Differential	Gauge	Absolute, Gauge, Sealed Gauge	Absolute, Gauge, Sealed Gauge
Technology	Piezoresistive	Piezoresistive	Piezoresistive	Piezoresistive with signal conditioning	Piezoresistive	Piezoresistive with surface mounted signal conditioning
Diameter(mm)	18.00	18.00	18.00	N/A	18.00	18.00
Structure	Flush mount	Monolithic	Flush mount, Monolithic	Monolithic	Flush mount	Flush mount
Signal output	Differential mV/V Signal	Differential mV/V Signal	Differential mV/V Signal	Ratiometric 0,5-4,5V	Differential mV/V Signal	Digital I2C 15 bit
Compliance	REACH, RoHS, Conflict Minerals					





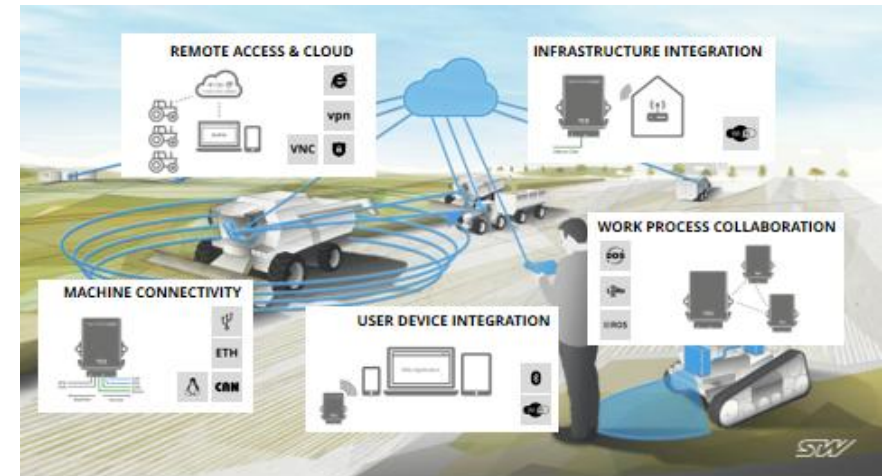
Thin-film Pressure Sensors



Germany



Model	M01	F02
Pressure reference	Relative R(gauge G) / absolute A	Relative R(gauge G)
Pressure range	0.3 to 2000 bar (other ranges available)	10 to 1200 bar (other ranges available)
Media temperature	-40 ... +85 °C (0.3 to 7bar) -40 ... +150 °C (10 to 2000 bar)	-40 ... + 125°C
Pressure connection	G1/4", NPT1/4", 7/16-20UNF etc.	2x4...20mA(3-wire) or 2 x 10...90% VCC M12, DT04-4P, cable output etc.
Output available	CAN, SENT, Analog(4...20mA, 0...20mA, 0...10V, 0...5V, 1...6V, 10...90%VCC(ratiometric))	≤ 1.0 %FS (0 ... +85 °C) ≤ 1.5 %FS (-25 ... 0 °C) ≤ 2.5 %FS (-40 ... -25 °C)



Model	M01	OPT1
Pressure reference	Liquid & gases, special gases	Liquid & gases, special gases
Pressure range	20 to 3000 bar	25 to 2000 bar
TC Zero offset	<0.1% FS	<0.2% FS
TC Span	<0.02% FS/K	<0.15% FS/K
Key features	<0.01% FS/K	<0.05% FS/K
Insulation	500 VDC.	500 VDC.



AGCO



LIEBHERR



KRONE



SENNEBOGEN



PUTZMEISTER



MANITOWOC

Digital Pressure transmitter PASCAL CV3



Model	Series CV3110
Measuring range	0...40bar
Ambient temperature	-20...85°C
Accuracy	≤ 0,15 %
Material wetted parts	Stainless steel(Others on request)
Output signal	4...20mA, HART®, with contact, Profibus
Process connection	Diaphragm seal Hygienic / Diaphragm seal
Requirement	SIL2, UKEX, ATEX, Hydrogen
Degree of protection	IP66, IP69K(option)

Pressure Transmitter PASCAL CV4



Model	Series CV4110
Measuring range	-1...40bar
Media temperature	-20...160°C
Ambient temperature	-40...80°C
Accuracy	≤ 0,1 %
Material wetted parts	Stainless steel 316L(Others on request)
Output signal	4...20mA / 4...20mA HART®
Process connection	Diaphragm seal Hygienic / Diaphragm seal
Requirement	ATEX, IECEx
Degree of protection	IP65, IP67, IP69K

Pressure transmitter PASCAL CS



Model	Series CS2110
Measuring range	0...100bar
Media temperature	-20...160°C
Ambient temperature	-20...85°C
Accuracy	≤ 0,3 %
Material wetted parts	Stainless steel(Others on request)
Output signal	4...20mA / with contact
Process connection	Diaphragm seal Hygienic
Requirement	EHEDG(valid only in exceptional case)
Degree of protection	IP65, IP67

Differential Pressure Transmitter CI4300



Model	Series CV4300
Measuring range	-1...40 bar
Accuracy	-90...400 °C
Temperature	0.1%
Material wetted parts	St. steel. 316L
Material case	4...20mA, HART®, with contact
Process connection	Process flange with connection dimension
Output Signal	UKEX, ATEX, IECEx
Requirement	IP65, IP67, IP69K(option)

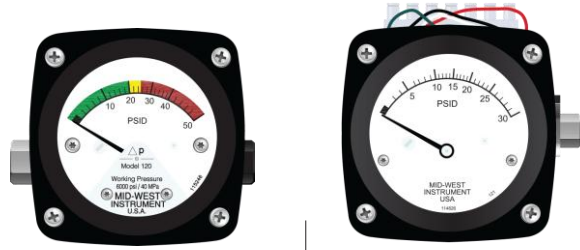
Differential Pressure Transmitter PASCAL CV4



Model	Series CV4300
Measuring range	-1...40 bar
Accuracy	-20...100 °C
Temperature	St. steel. 316L
Material wetted parts	4...20mA, HART®, with contact
Material case	Process flange with connection dimension
Process connection	UKEX, ATEX, IECEx
Output Signal	IP65, IP67, IP69K(option)
Requirement	



Piston Type Gauges

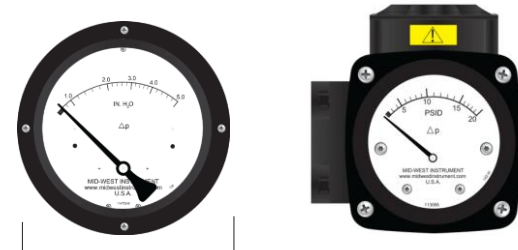


Model
Pressure range
Working pressure
Accuracy
Special characteristic

Model 120
0-5 PSID to
0-110 PSID
Up to 6,000PSI
±3/2/3%
Alum/Bronze and
Monel(Wetted Part)

Model 121
0-5 PSID to
0-100 PSID
Up to 6,000PSI
±3/2/3%
316/316L
st. steel(Wetted part)

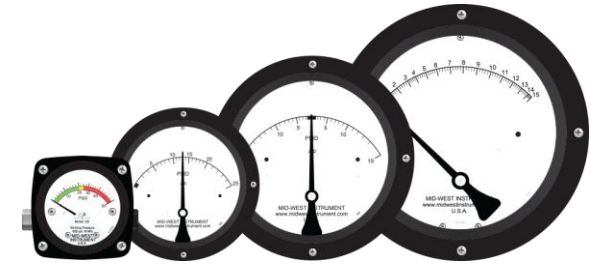
Diaphragm Type



Model
Pressure range
Working pressure
Accuracy
Special characteristic

Model 130
0-5" H₂O to
0-15 PSID(0-400"H₂O)
Up to 500 PSI
±5% (5"-9.9"H₂O)
±3/2/3% (≥10"H₂O)
Aluminum and 316/316L
St. steel(Wetted)

Model 142
0-20" H₂O to
0-25 PSID
±3/2/3%
Aluminum /Bronze &
Monel(Wetted Part)



Bourdon Tube Type Gauges



Model
Pressure range
Working pressure
Accuracy
Special characteristic

Model 109
0-15 PSID to
0-6000 PSID
Up to 6,000PSI
1/2% or 1% Full
Scale (Exception
exists)
st. steel and Brass
(Wetted Part)

Model
Pressure range
Working pressure
Accuracy
Special characteristic

Bellows Type Gauges



Model 105
0-10" H₂O to 0-
79.9" H₂O
Up to 3,000 PSI
±0.5 or ±1.0% (1/2%
FS ≥30" H₂O)
Stainless Steel and
Brass (Wetted Part)



Model 106
0-80" H₂O to 0-800" H₂O
Up to 3,000 PSI
±0.5 or ±1.0% FS
Stainless Steel and Brass
(Wetted Part)



Model 115
0-10" H₂O to 0-69.9" H₂O
500 PSI (Optional 1,000 PSI)
±1.0%
Brass (Wetted Part)



Model 116
0-70" H₂O to 0-800" H₂O
500 PSI (Optional 1,000 PSI)
±1.0%
Brass (Wetted Part)

red-y Compact Series

Air, O₂, N₂, He, Ar, CO₂, H₂, CH₄, C₃H₈

						
Model	GCM	GCS	GCY	GCR	GCA	GCZ
	Digital mass flow meter	Digital mass flow meter with alarm functions	Digital mass flow meter with analog module	Digital mass flow regulator with manual valve	Digital mass flow regulator with alarm function & manual valve	Digital mass flow regulator with analog module
Accuracy	2%FS / 1:50, >200In/min ±3.0% of FS	2%FS / 1:50, >200In/min ±3.0% of FS	2%FS / 1:50, >200In/min ±3.0% of FS	2%FS / 1:50, >200In/min ±3.0% of FS	2%FS / 1:50, >200In/min ±3.0% of FS	2%FS / 1:50, >200In/min ±3.0% of FS
Measuring Range	Flow up to 450 In/min	Flow up to 450 In/min	Flow up to 450 In/min	Flow up to 450 In/min	Flow up to 450 In/min	Flow up to 450 In/min
Power supply	Battery / 24V / 80-230V	24V	24V	Battery / 24V / 80-230V Regulator with manual valve	24V Alarm module: 2 x SPDT / 1 x SPDT	24V Analog module: 4...20mA, output signal

red-y Smart Series

		
Model	GSM	GSC
	High precision digital mass flow meter	High precision digital mass flow controller
Accuracy	± 1.0% of FS / 1:50	± 1.0% of FS / 1:50
Measuring Range	Flow up to 450 In/min	Flow up to 450 In/min
Materials	Anodized aluminum	Anodized aluminum

red-y Smart Pressure Controllers

		
Model	GSM	GSB
	Electronic pressure controller	Electronic back pressure controller
Accuracy	± 1.0% of FS / 1:50	± 1.0% of FS / 1:50
Measuring Range	Flow up to 450 In/min	Flow up to 450 In/min
Materials	Anodized aluminum, Stainless steel	Anodized aluminum, Stainless steel

red-y Industrial Series



Model	GIM	GIC	GIE
	Digital mass flow meter with IP67 & Ex.	Digital mass flow meter with IP67 & Ex.	Thermal mass flow controller with IP67 & Ex. External valve
Accuracy	±1.0 % of FS / 1:50,	± 1.0 % of FS / 1:50,	± 1.0 % of FS / 1:50,
Measuring Range	Flow up to 450 In/min	Flow up to 450 In/min	Flow up to 450 In/min
Materials	Stainless steel 316L	Stainless steel 316L	Stainless steel 316L

Multi-Parameter MFM & MFC



Model	DFM	DFC
	Multi-parameter mass flow meter	Multi-parameter mass flow controller
Sensor option	High accuracy optional	High accuracy optional
Measuring Range	Flow up to 1400 In/min	Flow up to 1400 In/min
Materials	Stainless steel 316L(1.4404) / aluminum	Stainless steel 316L(1.4404) / aluminum

VA-Flowmeters (variable area)



Model	Series M-Flow
	High-precision control valves for fine dosages of gases & liquids
Measuring range	Upto 40 bar
Temperature range	-40°C to 100°C
Sealings	FKM, EPDM, FFKM

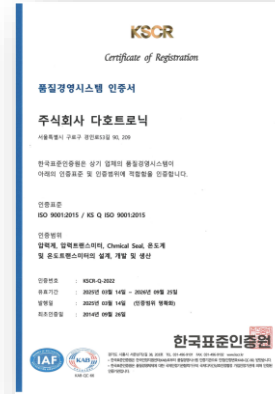
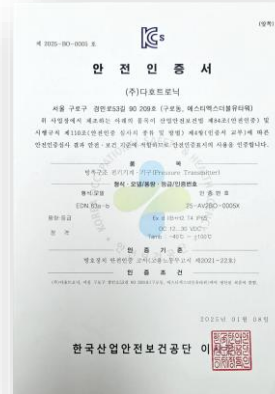
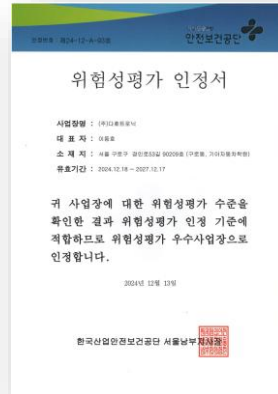
Certifications



ISO9001:2015
CERTIFIED



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