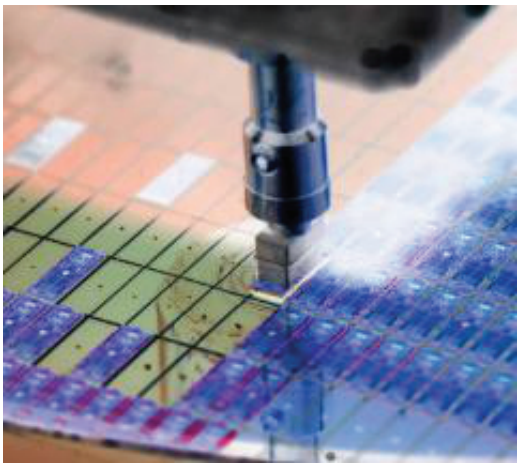
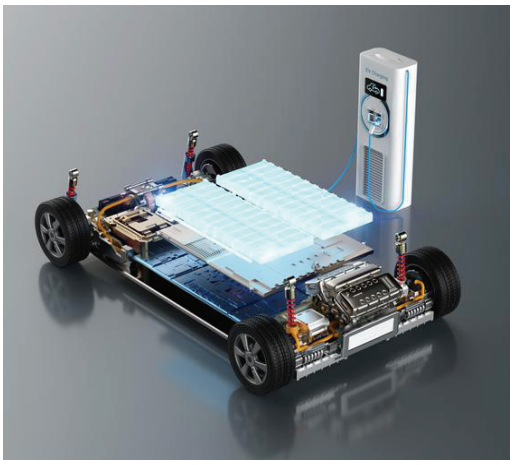
DAHO short form leaflet_ver.25





7-9	KELLER
10	METALLUX part of ELTEK GROUP
11-12	Labom
13	STW
14	Mid-West Instrument
15	europascal Calibration Experts
16	simex
17-18	vögtlin instruments

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압력계 & 압력트랜스미터 의 최고 기술

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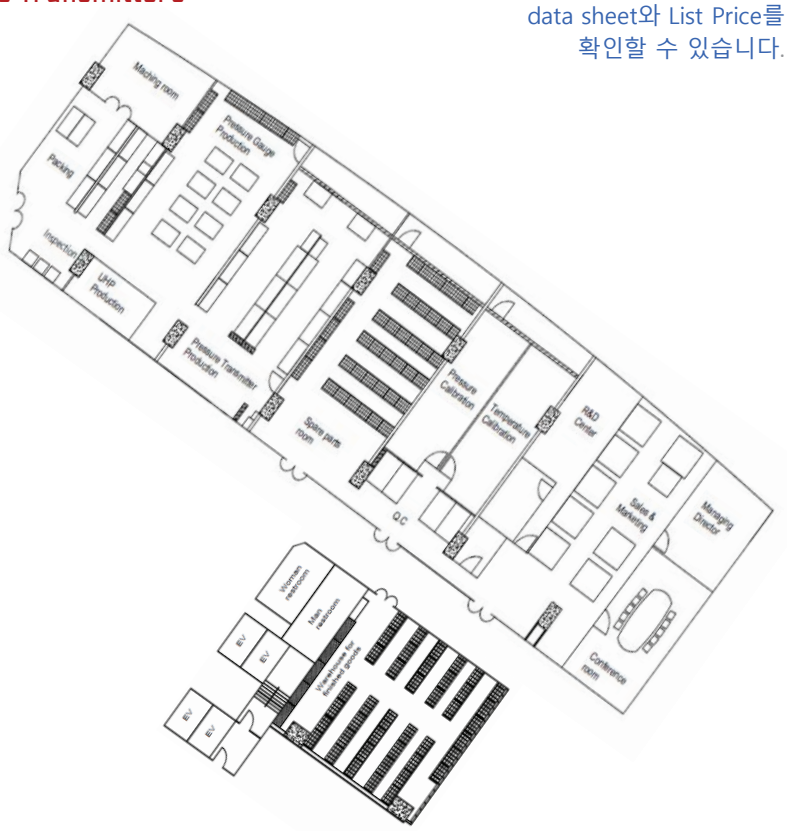
www.daho.co.kr
을 방문하시면,
data sheet와 List Price를
확인할 수 있습니다.

다호트로닉 공장면적

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



회사소개

다호트로닉은 2000.07.01일 설립하여 압력·온도·습도·유량 분야의 계측기를 중심으로 세계 최고의 압력센서기술 "Piezoresistive silicon pressure sensors" 제조사인 스위스 Keller社와 Ceramic pressure sensors 제조사인 스위스 Metallux社 그리고 Thin-film pressure sensors 제조사인 독일 STW社와 압력과 온도계측기 종합전문제조회사인 독일 LABOM社, 차압계 전문업체인 미국의 Mid-West Instrument社, 디지털시스템의 가스유량 측정의 스위스 Voegtlin 社와 한국 총판 및 기술협력 대리점을 계약하고, 관련 제조 제품들을 수입하여 국내 프로세스산업에 공급을 해오고 있습니다.

이와 함께, 다호는 지난 2011.12월에 서울 구로구 구로동에 위치한 "지식산업센타" 건물에 연면적 446평 규모의 제조설비와 기술연구소 설립 공간을 확보하고, 계측기 전문제조회사로의 설비투자 및 개발 제품을 완성하였고, 이제 중공업의 조선산업과 같은 분야에서 요구되는 국내외 성능 인증서를 획득하기 위해 관련 절차를 준비하고 있습니다.

- 2014. 04월 기술연구소 설립
- 2014. 04월 KOLAS (KSQ ISO/IEC 17025) 압력 및 온도분야 인증
- 2017. 09월 ISO9001 획득

2014년 이후에 개발 및 제조를 해온 압력계 및 압력센서 제품을 현재 국내 및 국외 인증 작업을 받고 있으며, 유럽의 CE인증 그리고 일부 제품은 국내 방폭지역 적용에 필수인 방폭인증서를 받았으며, 실제적인 국내 압력분야 계측기의 최고 개발 연구진 그리고 제조 생산 설비 및 연구장비 등의 국내 최고의 기술과 제품을 보유하고 있습니다.

국내 대부분의 반도체산업, 수소산업, 자동차산업 그리고 조선산업에서 적용되는 압력계 및 압력센서 계측기가 해외 제품으로 적용되고 있으나, 현재 다호에서 개발되는 제품들이 개발완료 및 인증을 확보하게 된 후에, 관련 모든 분야에서 다호제품으로 대체시킬 수 있게 임.직원 모두 불철주야 개발 및 투자 그리고 인증절차 작업에 집중하고 있습니다.

국내 미래산업에서, 반도체 제조생산라인에 적용되는 압력센서 및 압력분야 계측기, 수소산업과 2차 전지산업에 적용되는 특수분야 압력센서 그리고 중공업 분야 중의 조선산업과 전기전자 제어 분야인 변압기 차폐장치, 정유·화학, 수력.화력.원자력 등의 에너지산업, 철도차량제조산업, 유공압, 수처리, 냉동공조, 제약, 식음료 등등 많은 분야에서 해외제품보다 다호제품으로 적용되어져 가고 있습니다.

다호는 대한민국에서 명실공히 압력계 및 압력센서 분야에서 자체 기술연구소를 두었으며, 기술개발 전문인력과 최고의 연구개발시스템 그리고 제조 생산 시스템과 설비를 갖춘 국내 최고의 전문적인 압력분야 기술 중심의 전문 제조 업체로 거듭 성장해 나갈 것입니다.

국제인증교정기관 / KOLAS

ISO 9001:2015 CERTIFIED

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

압력 교정 범위

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

온도교정 범위

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

일반산업용 내압방폭 압력트랜스미터

Ex d IIC T6, IP65

[방폭지역의 압력측정]

Hazardous Area (위험지역)에서 적용할 수 있는
내압방폭형 압력트랜스미터이다.
Wetted parts와 Housing 그리고 Electrical
connection의 모든 재질이 Stainless steel로
제작되었으며, 모든 중요 연결 부위는 뛰어난 성능의
레이저 용접방식으로 결합되어
그 밀폐 기능의 신뢰성이 매우 우수하다.

[2025. 9월 초 예정]
Ex d IIC T6
by KOSHA

[2025. 10월 예정]
Ex d IIC T6
by KOSHA

수소전용 내압방폭 압력트랜스미터

Ex d IIB+H2 T4, IP65

[수소 압력측정]

수소 가스는 "**수소취성**"과 "**수소투과**"라는 특성으로
수소가스 압력을 반영구적으로 오랜 기간동안 신뢰성있게
측정하기 위해서 압력센서의 다이아프램 부분은
"금 도금(Gold plated on flush diaphragm)" 처리된 압력센서를
반드시 적용해야 하며, 또한 중요한 것은 수소가스의 특성상
온도적용범위는 -40℃...+120℃ 를 가져야 해당 온도범위에서
신뢰성 있는 측정값이 보장되는 것이다.

[2025. 9월 초 예정]
Ex d IIB+H_2T4
by KOSHA

[2025. 10월 예정]
Ex d IIB+H_2T4
by KOSHA

압력계 / Pressure gauges

Pressure gauges with contact switches

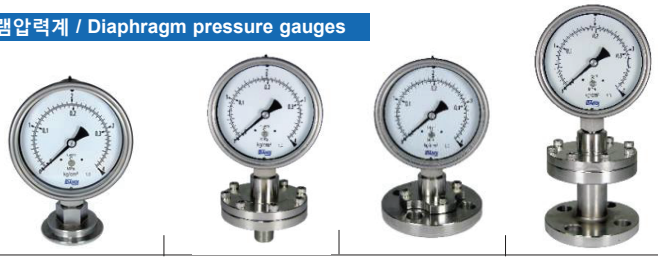
SF_6 gas density monitoring pressure gauge

	MBS	MBX	MAX	MSP	MMS	MIS	MGD
Model							
Size	40,50,63,80,100mm	63, 100mm	40,50,63,80,100mm	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	-1…0 bar to 0…1000 bar	-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%	2.5%, 1.6%	2.5%, 1.6%, 1.0%	1.0%	1.0%,	1.0%,	1.0%,
	black steel case	wetted part: Brass	wetted part: st. steel	wetted part: st. steel			
Special characteristic			Max. upto 4000bar	*Safety pattern*	*Magnetic switches, contacts*	*Inductive switches, non-contacts*	*SF6 Gas density monitoring*

미압계 / Low pressure gauges

	MCL	MDL
Model diameter	100mm	100mm
Pressure range	0…25 mbar to 0…600 mbar	0…16 mbar to 0…1000 mbar
Accuracy	1.6% (≥ 40 mbar),	1.6%, 2.5%,
Measuring concept	Element type: Capsule	with diaphragm flange
Process connection	G1/2", G1/4" R1/2", R1/4"	G1/2", G1/4" R1/2", R1/4"

다이아프램압력계 / Diaphragm pressure gauges



	MSA	MDB	MDF	MDI
Model Concept Pressure	(Hygienic application) sanitary diaphragms	Diaphragm seal can be coated by Teflon, Tantalum & any materials	Diaphragm can be coated by Teflon, Tantalum & any special materials	Dual diaphragm coated by Teflon
Pressure range	-1…0 bar to 0…40 bar	-1…0 bar to 0…40 bar	-1…0 bar to 0…40 bar	0…0.6 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

Model Concept

Chemical seals assembled with
- MAX series: 63, 80,100 mm
- Pressure transmitters EDN.305 & others

디지털압력계 / Digital Pressure Gauges

	ODi-3G	ODi-4G	ODi-4H	ODi-5G	ODi-5H	ODi-5P	ODi-5PH
Model							
Size	63mm	63mm	80mm	100mm	100mm	100mm	100mm
Display	4.5 Digit	4.5 Digit	4.5 Digit	5 Digit	5 Digit	5 Digit	5 Digit
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

Pressure transmitters for general industry

EDN.305
0.5%
-1…0 bar to 0…1000 bar

EDN.303
0.25%
-1…0 bar to 0…1000 bar

EDN.301
0.15%
-1…0 bar to 0…1000 bar

EDN.310
0.5%, 0.25%
-1…0 bar to 0…1000 bar

for outdoor installation

EDN.331
0.5%
-1…0 bar to 0…1000 bar

for pump system

EDN.332
0.5%
0…10, 16, 25 bar

for air compressor

EDN.334
0.5%
0…10, 16, 25, 40 bar

for refrigeration

EDN.336
0.5%
-1..0 to -1…50 bar
0…0.6 to 0…160 bar

for heating & cooling

EDN.337
0.5%
0…1 bar to 0…250 bar,

for tire industry

EDN.342
0.5%
-1…0 bar to 0…1000 bar

very low pressure measurement

EDN.324
0.5%
± 10 mbar to 0…1000 mbar
very low pressure measurement

for scrubber machines

EDN.335
0.5%
with 10.4mm hole
±250, ±500, ±1000, ±2000
±2500, ±5000 mmH_2O

zero & span adjustment function

EDA.370
0.5%
-1…0 to 0…1000 bar

EDA.378
0.25%
0…10, 16, 25 bar
for railway brake system

LCD & LED local monitoring only for 4-20mA

AC45 **AC46**

with flush diaphragm for high viscosity

EDN.320
0.5%
-1…0 bar to 0…250 bar

Ratio-metric 0.5…4.5V / 5V for second battery / 2차 전지

EDR.321
0.5%
-1…0 & 0…0.6 to 0…1000 bar,
Output signal: 0.5…4.5 / 5V
ratio-metric

Differential pressure transmitter

EDN.350
0.5% & 0.25%
from 0…20 mbar to 0…16 bar

Water level measurement

- Pressure ranges: 0…10 mbar to 0…30 bar & on request
- General water, oil & fuel level measurement
- High qualified level measurement with IP68

EDN.365
0.5%

EDN.363
0.25%

EDN.361
0.15%
[option] 0.1%

EDN.369
0.5%
thread connections
[option] 0.25%, 0.1%

Pressure transmitters a/w chemical seals

EDN.313

0…100 mbar to 0…40 bar

For hygienic applications

EDN.319

0…100 mbar to
0…40 bar
For High Temperature
Various Cooling Elements
(upto 200℃, cooling device)

EDN.314

0…400 bar to
0…1600 bar
For homogenizer

EDN.315
(a/w MDB)
0…200 mbar to 0…100 bar

Threaded type connection
a/w diaphragm internally

EDN.316
(a/w MDF)
0…200 mbar to 0…100 bar

Process-flange diaphragm.
Various material diaphragms

EDN.317
(a/w MDI)
0…200 mbar to 0…100 bar

Double process-flange
a/w diaphragm internally

Accuracy: 0.35% [options] 0.25%, 0.15% & 0.1%
내압방폭 / explosion flame-proof: Ex d IIC T6 / Ex d IIB+H2 T4

EDN.610
-1…0 bar to
0…1000 bar

General explosion
flameproof

EDN.630
-1…0 bar to
0…1050 bar
only for Hydrogen
gold plated pressure sensors
수소내압방폭 / Ex d IIB+H2

EDN.620
-1…0 bar to
0…250 bar

with flush diaphragm
for viscosity media

EDN.613
0…40 bar

Flameproof explosion
For hygienic applications

EDN.614

0…250 bar to
0…1000 bar
For homogenizers

EDN.615
(a/w MDB)
0…250 bar

Various threaded design
a/w diaphragm internally

EDN.616
(a/w MDF)

0…250 bar

Process-flange diaphragm
a/w various diaphragm

EDN.617
(a/w MDI)
0…250 bar

Double process-flange
a/w diaphragm internally

EDN.650
0.5%

0…20 mbar
to 0…20 bar

Differential
pressure transmitter

**일반산업용 내압방폭
압력트랜스미터**

Ex d IIC T6, IP65
[방폭지역의 압력측정]

Hazardous Area (위험지역)에서
적용할 수 있는 내압방폭형
압력트랜스미터이다.
Wetted parts와 Housing 그리고
Electrical connection의 모든 재질이
Stainless steel로 제작되었으며,
모든 중요 연결 부위는 뛰어난 성능의
레이저 용접방식으로 결합되어 그
밀폐 기능의 신뢰성이 매우 우수하다.

**수소전용 내압방폭
압력트랜스미터**

Ex d IIB+H2 T4, IP65
[수소 압력측정]

수소 가스는 "**수소취성**"과 "**수소투과**"
라는 특성으로 수소가스 압력을
반영구적으로 오랜 기간동안 신뢰성있게
측정하기 위해서 압력센서의 다이아프램
부분은 "금 도금(Gold plated on flush
diaphragm)" 처리된 압력센서를반드시
적용해야 하며, 또한 중요한 것은
수소가스의 특성상 온도적용 범위는
-40℃...+120℃ 를 가져야 해당
온도범위에서 신뢰성 있는 측정값이
보장되는 것이다.

All st. steel housing pressure transmitters with LCD window, series 7xx

EDN.710

0.35%, 0.25%, 0.15%
-1…0 bar to 0…1000 bar

For general industry

EDN.720

0.35%, 0.25%, 0.15%
-1…0 bar to 0…250 bar

with flush diaphragm for high viscosity application

EDN.730

0.35%, 0.25%, 0.15%
-1…0 bar to 0…1050 bar

Gold plated sensors For H_2, Hydrogen

Differential pressure transmitters

EDN.750

0.5%, 0.25%, 0.1%
Delta P: 0…20 mbar to 0…20 bar

Differential pressure transmitters

All st. steel housing pressure transmitters with chemical seals

EDN.715
(a/w MDB)
0.35%, 0.25%, 0.15%
From 0…1.6 bar to 0…250 bar

For general processor industry

EDN.716
(a/w MDF)
0.35%
upto 0…250 bar

Process-flange diaphragm.
Aggressive environments

EDN.717
(a/w MDI)
0.35%
upto 0…250 bar

Double process-flange
a/w diaphragm internally

Water level measurement

Specs vary by accuracy.

EDN.765	EDN.763	EDN.761
0.5%	0.25%	0.15%

From 0…10 mbar to 0…30 bar
& others on request

water, oil & fuel level
measurement
with LCD monitoring

Aluminum housing pressure transmitters with LCD window, series 8xx

EDN.810
0.35%, 0.25%, 0.15%

-1…0 bar to 0…1000 bar

For process industry

EDN.820
0.35%, 0.25%, 0.15%

-1…0 bar to 0…250 bar

with flush diaphragm for high viscosity applications

EDN.830
0.35%, 0.25%, 0.15%

-1…0 bar to 0…1050 bar

Gold plated sensors for H_2, Hydrogen

Differential pressure transmitters

EDN.850
0.5% / 0.25%

from 0…20 mbar to 0…25 bar

Differential pressure transmitter
With LCD monitoring

Aluminum housing pressure transmitters with LCD window, series 8xx

EDN.815 (a/w MDB)
0.35%
0…1.6 bar to 0…250 bar

For process industry

EDN.816 (a/w MDF)
0.35%
upto 0…250 bar

Process-flange diaphragm
for aggressive environments

EDN.817 (a/w MDI)
0.35%
upto 0…250 bar

Double process-flange
a/w diaphragm internally

Water level measurement

Specs vary by accuracy.

EDN.865	EDN.863	EDN.861
0.5%	0.25%	0.15%
from 0…10 mbar to 0…30 bar	from 0…10 mbar to 0…30 bar	from 0…10 mbar to 0…30 bar

water, oil & fuel level
measurement
with LCD monitoring

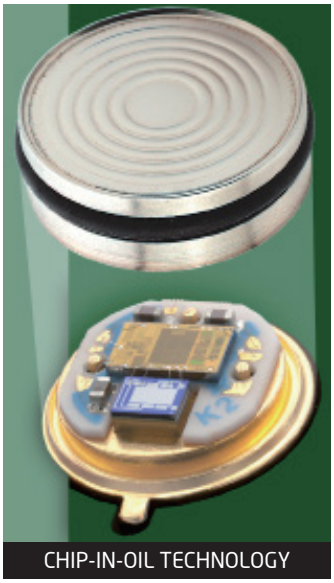
KELLER

세계 최고 기술

Piezoresistive Silicon Pressure Sensors

Swiss Technology

세계 최고의 정밀도, accuracy 0.01%
Wetted parts are all st. steel
압력측정범위 -1..0 to 0…1000bar
절대압 측정 가능
디지털 Interface series 30X



0.05% / 0.01%

Pressure Transducers







Model	Series 3L	Series 4L	Series 6L	Series 7L	Series 9FL	Series 10LHP	Series PD-10L
Pressure Ranges	0…20 to 0…200 bar	0…10 to 0…20 bar	0…10 to 0…200 bar	0…5 to 0…200 bar	0…0.2 to 0…200 bar	0…100 to 0…1000 bar	0…0.1 to 0…30 bar
Accuracy	± 0.5 %FS	± 0.25 %FS	± 0.25 %FS	± 0.25 %FS	± 0.25 %FS	± 0.25 %FS	200 bar / Line P
Temperature Range	0…50°C	-20…85°C	-10…80°C	-20…100°C	-10…80°C	-20…100°C	± 0.25 %
Dimensions	⌀ 9.5mm x 4.2 mm	⌀ 11 mm x 5.2 mm	⌀ 13 mm x 4.5 mm	⌀ 17 mm x 5.5 mm	⌀ 17 mm x 5.5 mm	⌀ 19 mm x 15 mm	-40…125 °C
							⌀ 19 mm x 26 mm

Pressure Transmitters with Output 0.5-4.5V ratio-metric

Pressure Transmitters with Output I²C






Model	Series 4LC	Series 8LC / 9LC	Series 9FLC	Series 4LD	Series 9LD	Series 9FLD
Pressure Ranges	0…3 to 0…200 bar	0…1 to 0…200 bar	0…1 to 0…50 bar	0…3 to 0…200 bar	0…1 to 0…200 bar	0…1 to 0…200 bar
Accuracy	± 0.25%FS	± 0.25%FS	± 0.25%FS	± 0.25%FS	± 0.15%FS	± 0.15%FS
Total Error Band	± 1.0%@0…50°C	± 0.8%@-10…80°C	± 0.8 %@-10…80°C	± 1.0%@0…50°C	± 0.7%@-10…80°C	± 0.7%@-10…80°C
Interfaces	0.5…4.5 V ratiometric	0.5…4.5 V ratiometric	0.5…4.5 V ratiometric	I²C	I²C	I²C
Dimensions	⌀ 11 mm x 4.2 mm	⌀ 17 x 7mm / ⌀ 19 x 5mm	⌀ 17 mm x 5.5 mm	⌀ 11 mm x 4.2 mm	⌀ 19 mm x 5 mm	⌀ 19 mm x 5 mm
Temperature Range					*-40…110 °C*	*-40…110 °C*

Pressure Transmitters with Output 0.5-4.5V ratio-metric

Intrinsically safe

OEM Pressure Transmitter






Model	Series 6LHPC	Series 7LHPC	Series 6LHPD	Series 7LHPD	Series 9FLD-Ei	Series 10LX
Pressure Ranges	0…200 to 0…1000 bar	0…200 to 0…1000 bar	0…400 to 0…1000 bar	0…400 to 0…1000 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	± 0.05 %FS
Total Error Band	± 0.8%@-10…80°C	± 0.8%@-10…80°C	± 1.0%@-40…110°C	± 1.0%@-40…110°C	± 0.7 %@-10…80°C	± 0.1 %@-10…80°C
Interfaces	0.5…4.5 V ratiometric	0.5…4.5 V ratiometric	I²C	I²C	I2C	RS485, 4…20 mA, 0…10 V
Dimensions	⌀ 13 mm x 8 mm	⌀ 15 mm x 8 mm	⌀ 13 mm x 8 mm	⌀ 15 mm x 8 mm	⌀ 17 mm x 5,5 mm	⌀ 19 mm x 57…96 mm
Temperature Range						

Digital pressure gauges






Model	ECO 2	LEO 2	LEO 1	LEX 1	LEO 5	LEO 3
Display	4 Digit	4 Digit	4 Digit	5 Digit	5 Digit	5 Digit
Pressure range	-1…30 bar, 0…300 bar	-1…3 to 0…700 bar	-1…3 to 0…1000 bar	-1…1 to 0…1000 bar	-1…1 to 0…1000 bar	-1…3 to 0…1000 bar
Accuracy	0.5% FS	0.1% FS	0.1% FS	0.05% FS	0.05% FS	0.1% FS
Function	Zero offset	Zero offset	*Peak recording*	*RS485*	USB & Zero offset	Zero offset
				Precision, 0.01% FS	*All-rounder Data logging*	*RS485, 4…20mA*


Model	LEO-Record	LEO-Record, *H2-Hydrogen*
Pressure Ranges	5 Digit	5 Digit
Accuracy	-1…3 to 0…1000 bar	-1…3 to 0…1000 bar
Total Error Band	0.1% FS	0.1% FS
Interfaces	RS485	RS485
Temperature Range	Zero offset	Zero offset
	Measured value recording	Measured value recording

Pressure Transducers & Pressure Transmitters, "chip in oil"




Analog pressure sensors & digital Pressure Sensors, "chip in oil"

Pressure Transmitters

Model	**21Y**
Pressure Ranges	0…2 to 0…1000 bar
Accuracy	± 0.5 % FS
Total Error Band	± 1.5 % @10…80 °C
Interfaces	4…20 mA, 0…10 V
Temperature Range	-40…125°C

21C
0…2.5 to 0…160 bar
± 0.25 % FS
± 0.7 % @ -10…80 °C
0.5…4.5V/5V, ratiometric
-40…125°C

21PY
0…10 to 0…600 bar
± 0.5 % FS
± 1.5 % @ -10…80 °C
0.5…4.5V/8…28V
-20…100°C

23SY
0…0.1 to 0…1000 bar
± 0.25 % FS
± 0.7 % @ -10…80 °C
4…20 mA, 0…10 V
-40…125°C

25Y
0…0.5 to 0…600 bar
± 0.25 % FS
± 0.7 % @ -10…80 °C
4…20 mA, 0…10 V
-40…100°C

H2, Hydrogen Application

Model	**23SY / 23SY-H2**
Pressure Ranges	0…0.1 to 0…1000 bar
Accuracy	± 0.25 % FS
Total Error Band	TEB: ±0.7% @ -10…80 °C
Interfaces	4…20 mA, 0…10 V
Temperature Range	-40…125°C

23SX / 23SX-H2
0…0.16 to 0…1000 bar
± 0.1 % FS
TEB: ±0.25% @ -10…80 °C
4…20 mA, 0…10 V
-20…125°C

33X
0…0.3 to 0…1000 bar
± 0.05 %FS
TEB: ± 0.1% @ -10…80 °C
RS485, 4…20 mA, 0…10 V
-40…125°C

35X
0…0.3 to 0…1000 bar
± 0.05 %FS
TEB: ±0.1% @ -10…80 °C
RS485, 4…20 mA, 0…10 V
-40…125°C

41X
0…0.03 to 0…0.3 bar
± 0.1 %FS
± 0.2 % @ 10…50 °C
RS485, 4…20 mA, 0…10 V
-20…80 °C

Differential Pressure Transmitters

IO-Link & CANopen

Model	**PD-33X**
Pressure Ranges	0…3 to 0…1000 bar
Accuracy	0.05% FS
Total Error Band	TEB: ±0.1% @ -10…80 °C
Line pressure	200 bar / 600 bar
Temperature Range	RS485, 4…20 mA, 0…10 V

PD-23
0. 5% FS
200 bar
4…20 mA, 0…10 V

PD-39X
0.05% FS
0…3 to 0…35 bar
RS485, 4…20 mA, 0…10 V

PD-41X
0.05% FS
0…0.03 to 0…0.3 bar
RS485, 4…20 mA, 0…10 V
Very low pressure

23 SXc
0.1% FS
0…0.16 to 0…1000 bar
CANopen
Comp.temp: -10…80 °C

Level Probes

Model	**26Y**
Pressure Ranges	0…0.1 to 0…10 bar
Accuracy	± 0.25 %FS
Total Error Band	± 0.5 %FS @ 0…50 °C
Interfaces	4…20 mA
Special Characteristics	Compact design

36XW
0…0.3 to 0…30 bar
± 0.05 %FS
± 0.1 %FS @ 0…50 °C
RS485, 4…20 mA, 0…10 V
Optimum accuracy

46X
0…0.03 to 0…0.3 bar
± 0.1 %FS
± 0.2 %FS @ 10…50 °C
RS485, 4…20 mA, 0…10 V
Ceramic measuring cell

Data Loggers for water level measurement

Model	**DCX-22**
Pressure Ranges	0…10 to 0…100 mH2O
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

Calibrators & Pumps

Model	**LPX**
Pressure Ranges	-0.85…10 bar
Accuracy	± 0.05 %FS
Special feature	For air pressure RS485

MPX
-0.85…25 bar
± 0.05 %FS
For air pressure
RS485

HPX
0…700 bar
± 0.05 %FS
For hydraulic oil
RS485

Hand pump K/P
-0.85…25 bar
± 0.25 %FS
Pneumatic hand pump
Medium: Air

세라믹 압력센서의 세계 최고 기술

Piezoresistive Ceramic Pressure Sensors

Swiss Technology

- 최고의 정밀도 0.15% FS
- 넓은 압력측정 범위 0...0.2 to 0...800bar
- Absolute, Gauge, Sealed gauge 측정 가능
- 온도 보상

Ceramic Pressure Sensors – Flush membrane






Model	**ME500**	**ME504**	**ME506**	**ME509**	**ME770**	**ME772**
Pressure range (bar)	0.5-1-2-5-10-20-50-100-200-400-600-800	0.5-1-2-5-10-20-50-100-200-400-600-800	1-2-5-10-20	0.2-0.5-1	0.5-1-2-5-10-20-50-100-200-400-600-800	0.5-1-2-5-10-16-20-50-100-200-250-400-600
Pressure type	Absolute, Gauge, Sealed Gauge	Absolute, Gauge, Sealed Gauge	Absolute, Gauge, Sealed Gauge	Gauge	Absolute, Gauge, Sealed Gauge	Absolute, Gauge, Sealed Gauge
Technology	Piezoresistive	Piezoresistive	Piezoresistive	Piezoresistive with surface mounted signal conditioning	Piezoresistive	Piezoresistive with signal conditioning
Diameter(mm)	18 mm	18 mm	15 mm	32 mm	18 mm	18 mm
Signal output	Differential mV/V Signal	Differential mV/V Signal	Differential mV/V Signal	Differential mV/V Signal	Ratio-metric 0.5-4.5V	Flush mount Current loop 4-20mA
Compliance	REACH, RoHS, Conflict Minerals		REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free		REACH, RoHS, Conflict Minerals Free

Ceramic Pressure Sensors – Flush membrane

Monolithic

Ceramic Pressure Transmitters – Monolithic






Model	**ME780**	**ME782**	**ME800**	**ME790**	**ME751**	**ME771**
Pressure range (bar)	0.5-1-2-5-10-20-50-100-200-250-400-600	0.5-1-2-5-10-20-50-100-200-250-400-600	1-2-5-10-25-40	10-20-50-100-150-300-750-1500	1.6-2-2.5-4-5-6-10-16-20-40-50-100-250-400	0.5-1-5-10-16-20-50-100-200-400-600-800
Pressure type	Absolute, Gauge, Sealed Gauge	Absolute, Gauge, Sealed Gauge	Differential	Gauge	Gauge	Absolute, Gauge, Sealed Gauge
Technology	Piezoresistive with signal conditioning	Piezoresistive with signal conditioning	Piezoresistive	Piezoresistive with electronic signal conditioning	Piezoresistive with electronic signal conditioning	Piezoresistive with electronic signal conditioning
Diameter(mm)	18 mm Monolithic	18 mm	18 mm	N/A	18 mm	18 mm
Structure	Flush mount	Flush mount / monolithic	Flush mount / Monolithic	Monolithic	Monolithic	Flush mount
Signal output	Ratio-metric 0.5-4.5V	Digital I²C, 15 bit.	Differential mV/V Signal	Ratio-metric 0-10V	Current loop 4-20mA.	Non ratiometric 0-10V
Compliance	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free	NSF/ANSI, DVGW Cert. WRAS, DM174	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free

Ceramic Pressure Sensors – Monolithic






Model	**ME600**	**ME657**	**ME670**	**ME750**	**ME752**	**ME790**
Pressure range (bar)	2-5-10-20-50-100-200-250-400-600	350	2-5-10-20-50-100-200-250-400	1.6-2-2.5-4-5-6-10-16-20-4-50-100-250 –400	1.6-2-2.5-4-5-6-10-16-20-4-50-100-250 –400	3-5-10-20-50-100-250-400
Pressure type	Gauge	Gauge	Gauge	Gauge	Gauge	Gauge
Technology	Piezoresistive with signal conditioning	Piezoresistive with signal conditioning	Piezoresistive with signal conditioning	Piezoresistive with surface mounted signal conditioning	Piezoresistive with surface mounted signal conditioning	Piezoresistive with electronic signal conditioning
Diameter(mm)	18 mm	12.85 mm	18 mm	18 mm	18 mm	18 mm
Signal output	Current loop 4 - 20 mA	Differential mV/V signal	Differential mV/V signal	Ratio-metric 0.5-4.5 V	Ratio-metric 0-10V	Ratio-metric 0-10V
Compliance	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals free	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free	REACH, RoHS, Conflict Minerals Free

Pressure Transmitter PASCAL CI4100, CI41110, CI4120

- Material of wetted parts: Stainless steel 316L(Others on request)
- Accuracy: ≤ 0.075%
- Ambient temperature: -40…80°C
- Output signal: 4…20mA / 4…20mA HART
- Certifications: SIL2, UKEX, ATEX, IECEX
- Weather protection: IP65, IP67, IP69K(option)

CI 4100

Measuring range	-1…600bar
Media temperature	-40…100°C

CI 4110

Measuring range	-1…40bar
Media temperature	-20…200°C

CI 4120

Measuring range	-1…600bar
Media temperature	-20…400°C

Differential Pressure Transmitter PASCAL CI4300, CI4330, CI4340, CI4350

- Material of wetted parts: Stainless steel 316L(Others on request)
- Accuracy: ≤ 0.1%
- Ambient temperature: -40…80°C
- Output signal: 4…20mA / 4…20mA HART
- Certifications: SIL2, UKEX, ATEX, IECEX
- Weather protection: IP65, IP67, IP69K(option)

CI 4300

Measuring range	-1…40bar
Media temperature	-40…100°C

CI 4330

Measuring range	-1…+40bar
Media temperature	-90…400°C
Accuracy	≤ 0.1%
Process connection	Diaphragm seal

CI 4340

Measuring range	-1…+16bar
Media temperature	-40…85°C
Accuracy	≤ 0.075%

CI 4350

Measuring range	-1…+16bar
Media temperature	-90…400°C
Accuracy	≤ 0.075%
Process connection	Diaphragm seal

Digital Pressure transmitter PASCAL CV3100, CV3110, CV3120

- Material of wetted parts: Stainless steel 316L(Others on request)
- Accuracy: ≤ 0.15%
- Output signal: 4…20mA / 4…20mA HART
- Certifications: SIL2, UKEX, ATEX, IECEX
- Weather protection: IP65, IP67, IP69K(option)

CV 3100
With thread connection

Measuring range	0…400 bar
Ambient temperature	-20…90°C
Accuracy	≤ 0.15 %

CV 3110
Diaphragm seal, hygienic

Measuring range	0…40 bar
Ambient temperature	-20…85°C

CV 3120
Diaphragm seal, robust

Measuring range	0…100 bar
Ambient temperature	upto 350°C

Digital Pressure transmitter PASCAL CV3300, CV3330

- Material of wetted parts: Stainless steel 316L(Others on request)
- Accuracy: ≤ 0.15%
- Ambient temperature: -90…400°C
- Output signal: 4…20mA / 4…20mA HART, with contact, Profibus
- Certifications: UKEX, ATEX, IECEX
- Weather protection: IP69K

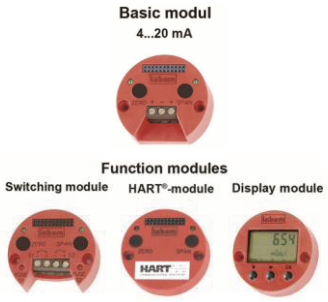
CV 3300
With thread connection

Measuring range	-1…40 bar
Accuracy	≤ 0.15 %
Process connection	Treaded

CV 3330
With thread connection

Measuring range	-1…40 bar
Accuracy	-≤ 0.15 %
Process connection	Diaphragm seal

PASCAL CV3 modular



- Smart modular technology system
- Functional modules can be exchanged on site
- Hygienic design in accordance with EHEDG
- Switching function
- Degree of protection IP66, IP69K
- HART

Digital Pressure transmitter PASCAL CV4100, CV4110

- Material of wetted parts: Stainless steel 316L(Others on request)
- Accuracy: ≤ 0.1%
- Ambient temperature: -20…100°C
- Output signal: 4…20mA / 4…20mA HART
- Certifications: SIL2, UKEX, ATEX, IECEX
- Weather protection: IP65, IP67, IP69K(option)

CV4100

Measuring range	-1…600bar
Media temperature	-20…100°C

CV 4110

Measuring range	-1…40bar
Media temperature	-20…160°C

Delta P PASCAL CV4300

CV 4300

Measuring range	-1…40bar
Media temperature	-20…100°C
Accuracy	≤ 0.15%

Sea-water level measurement

CG2010

Accuracy	≤ 0.15%
Output	4…20 mA
Requirement	ATEX
Whether protection	IP68,submersible

Pressure transmitter PASCAL CS

- ***Measuring, switching and indicating***

CS 2100

CS 2110

CS 2120

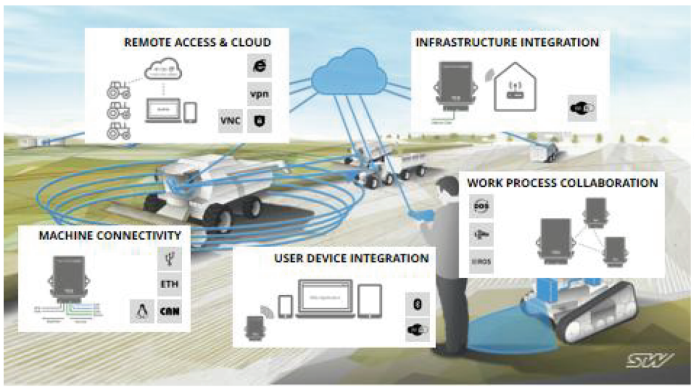
Measuring range	0…100bar
Media temperature	-20…160°C
Ambient temperature	-20…85°C
Accuracy	≤ 0.3 %
Material wetted parts	Stainless steel(Others on request)
Output signal	4…20mA / with contact
Process connection	Diaphragm seal Hygienic
Requirement	EHEDG(valid only in exceptional case)
Degree of protection	IP65, IP67

Temperature Transmitter

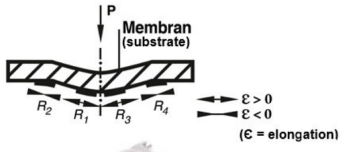
GV4610

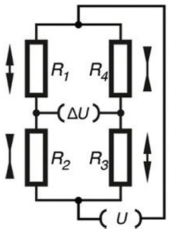
GV4730

Measuring range	-40…150
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



Package on a pressure capsule





H_2, Hydrogen

Pressure transmitters

Model	M01	F02
Type of pressure	Type of pressure: R(gauge G) / absolute A	Relative R(gauge G)
Input range	0…0.3 to 2000 bar	0…10 to 1200 bar
Operating temperature range	-40 … +85 °C (0.3 to 7bar) -40 … +150 °C (10 to 2000 bar)	-40 … + 125℃
connections	G1/4", NPT1/4", 7/16-20UNF etc.	
Output	CAN, SENT, Analog(4…20mA, 0…20mA, 0…10V, 0…5V, 1…6V, 10…90%VCC(ratio-metric))	2 x 4…20mA(3-wire) or 2 x 10…90% VCC M12, DT04-4P, cable output etc.

Pressure switch for machinery safety & in mobile machinery

F01 Safety
Relative R(gauge G)
0…20 bar to 0…1200 bar(relative)
-40…+125 °C
IP67

P01
Relative R(gauge G) / absolute A
0…0.1 bar to 0…7 bar with silicon cell
-40…+85 °C
IP67 / IPX9K

Pressure transmitters

SMX.pt-ha1

0…3.5 to 0…900 bar
-40…+85 °C
ATEX Zone 0
Hydrogen

For high pressure & temperature

SMX.pt-ea1

0…300 bar
1.0%FS
-40…+250 °C
Stainless steel
350mm cable

Temperature sensors

T01

Measuring range	-40…+150 °C
Accuracy	0.6%FS (-40 °C…+150 °C) 0.4%FS (-40 °C…+85 °C)
Output	CANopen, SAE J1939
Connections	G1/4", SAE06 (9/16-18UNF)

Thin-film pressure sensors

OEM Sensor
20 to 3000 bar
<0.1% FS
<0.02% FS/K
<0.01% FS/K
Insulation: 500 Vdc.

OPT1
25 to 2000 bar
<0.2% FS
<0.15% FS/K
<0.05% FS/K
Insulation: 500 Vdc

OPTI-H2
Designed for
H_2, Hydrogen

SMX.dms-a
Strain sensor for steel arms

SMX.igs-e
Imus & Inclination sensors

SMX.igs-a
Inertial Measurement Unit [IMU]

SIL2 | SAFETY | CAN | Thinfilm Technology


AGCO


LIEBHERR

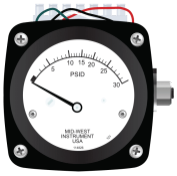

KRONE


SENNEBOGEN


PUTZMEISTER


MANITOWOC

Piston type gauges



Model	Model 120	Model 121	Model 122	Model 123	Model 124	Model 220
Pressure range	0…5 psid to 0…110 psid	0-5 psid to 0-100 psid	0…5 psid to 0…110 psid	0…150 psid to 0…400 psid	0…5 psid to 0…110 psid	0…5 psid to 0…110 psid
Working pressure	upto 6,000 psi	upto 6,000 psi	upto 3,000 psi	upto 5,000 psi	upto 10,000 psi	upto 10,000 psi
Accuracy	±3/2/3%	±3/2/3%	±3/2/3%	±3/2/3 %	±3/2/3 %	±3/2/3 %
Special characteristic	Alum/Bronze and Monel(wetted part)	316/316L st.steel(wetted part)	Aluminum(wetted part)	Aluminum, 316/316L	4…20mA Transmitter 316/316	4…20mA Transmitter 316/316L

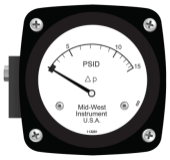
Diaphragm type

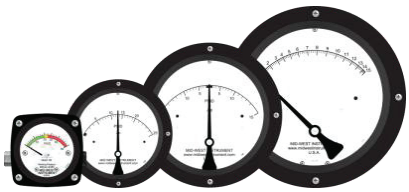




Model	Model 114	Model 130	Model 140	Model 142	Model 240
Pressure range	0…0.72 psid to 0…20 psid	0…5" H_2O to 0…15 psid (0-400"H_2O)	0…50"H_2O to 0…100 psid	0…20"H_2O to 0…25 psid	0…20"H_2O to 0…100 psid
Working pressure	upto 1000 psi	upto 500 psi	upto 500 psi	upto 3000 psi	upto 1500 psi
Accuracy	±3/2/3% (≥10"H2O)	±5% (5"-9.9"H2O) ±3/2/3% (≥10"H2O)	±3/2/3%	±3/2/3%	±3/2/3%
Special	CE / LVD, RoHS, NEMA 4X	CE / LVD, RoHS, NEMA 4X	CE / LVD, RoHS, NEMA 4X	CE / LVD, RoHS, NEMA 4X.	CE / ATEX / RoHS, CSA, UL, KOSHA
Material	Aluminium, Brass, 316/316L, st. steel	Polysulfone plastic, Brass, Aluminum and 316/316L st.steel (wetted part)	Aluminum / Brass, 316/316L, Aluminium / Bronze & Monel	Aluminium /Bronze & Monel	Aluminium /Bronze & Monel
Application	Tank level application	Filter monitoring for gases	Filter & strainer Monitoring	Filter & strainer Monitoring. [Class 1-Div. 4…20mA Transmitter]	Filter & strainer Monitoring. [Class 1-Div. 4…20mA Transmitter]

Bourdon tube type gauges



Model	Model 522	Model 522C (3-color dial)	Model 109
Pressure range	0…5 psid to 0...50 psid	0…15 psid to 0…6000 psid	0…15 psid to 0…6000 psid
Working pressure	upto 1,000 psi	upto 6,000 psi	upto 6,000 psi
Accuracy	±3/2/3% (≥10"H_2O)	1/2% or 1% Full	1/2% or 1% Full
Material	Aluminium, Acetal Plastic & 316/316L (wetted parts)	st. steel and Brass (wetted part)	st. steel and Brass (wetted part)
Application	Filter & strainer monitoring	Filter & strainer monitoring	Pump performance testing

Bellows type gauges




Model	Model 105	Model 106	Model 115	Model 116
Pressure range	0...10"H_2O to 0...79.9" H_2O	0...80"H_2O to 0...800"H_2O	0...10"H_2O to 0...69.9"H_2O	0...70"H_2O to 0...800"H_2O
Working pressure	upto 3,000 psi	upto 3,000 psi	Upto 500 psi / [option] 1,000 psi	upto 500 psi / [option] 1,000 psi
Accuracy	±0.5 or ±1.0% (1/2% FS ≧30" H2O)	±0.5 or ±1.0% FS	±1.0%	±1.0%
Special characteristic				
Materials	Stainless Steel and Brass (wetted part)	Stainless Steel and Brass (wetted parts)	Brass (wetted part)	Brass (wetted part)
Application	Pressurized tank level monitoring	Pressurized tank level monitoring	Tank level application	Tank level application

Deadweight Testers – Hydraulic

Series EHDT

- 0.02% to 0.005% of reading
- From 0.1 bar to 10,000 bar
- Oil / sebacate, skydrol and other oils
- Quick connector G1/2"(f) up to 2000 bar
- M16X1.5 up to 10,000 bar

Series EHDT
None motorization
None terminal for pressure calculation

Series EHDT-M
With motorization
None terminal for pressure calculation

Series EHDT-MLC
With motorization
With terminal for pressure calculation

Series BH

- 0.05% to 0.005% of reading
- 0.1 bar to 7,000 bar
- Quick connector G1/2"(f) up to 2000 bar
- M16X1.5 up to 10,000 bar

Series BH2
None motorization
None terminal for pressure calculation

Series BH3
With motorization
None terminal for pressure calculation

Series BH4
With motorization
With terminal for pressure calculation

Series BH-XXX

Series BH5-10000
With motorization
With terminal for pressure calculation
0.05 % of reading
200 bar to 10,000 bar
Medium : sebacate
Quick connector G1/2"(F) up to 2000 bar
M20X1.5 up to 10,000 bar

Series BH2-7000B
None motorization
0.04% of reading
200 bar to 7,000bar
Medium : Oil / sebacate
Quick connector G1/2"(F) up to 2000 bar
M16X1.5 up to 10,000 bar

Deadweight Testers Pneumatic

EP-G25K-D
Very low pressure deadweight tester

±0.015% of reading
0.02-25 kPa gauge pressure
0.005-25 kPa differential pressure
0.2-250 mbar
High-precision pressure generation

Series EPDT
Pneumatic deadweight tester

0.02% to 0.005% of reading
From -0.9 bar to 200 bar
4 adjustable feet & integrated bubble level
Quick connector G1/2" (F)
Optional motorizes, low-vibration belt drive
of the piston cylinder unit

Series PKII(AMETEK)
Mechanical deadweight tester

±0.015% of reading
1kPa to 200 kPa (0.145 psi to 30 psi)
Psi, g/cm2, mbar, bar, kPa, inH2O, cmH2O
Special calibrations/Local Gravity
Exceptional Performance
Safety Built-in

■ 산업 자동화 장비 제조업체 및 공급업체
■ 온도와 습도를 측정하고 기록하는 두 가지 다른 장치 시스템을 산업체 제공
■ 최신 산업용 일체형 장치인 프로센스(ProSens)를 보유 프로센스는 전송, 표시, 측정 및 온도와 습도를 제어 가능

Temperature and humidity measurement

Model	**ProSens QM-100**
Type of probe	no probe
Input range	1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
Output type	0.1 or 2 REL outputs (electronic NO)
Power supply	11...36V DC, 16...36V DC (0...10V out.)
Interface	RS-485 / Modbus RTU
Operating temp.	-30...+80°C

ProSens QM-212
radial, length 90mm, dia. 18mm

1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V,
0-150 mV, RTD or TC
11...36V DC, 16...36V DC (0...10V out.)
-30...+80°C, case with electronics

ProSens QM-211
radial, length 40mm, dia. 18mm

1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
11...36V DC, 16...36V DC (0...10V out.)
RS-485 / Modbus RTU
-30...+80°C, case with electronics

Model	**ProSens QM-213**
Type of probe	radial, length 145mm, dia. 18mm, 1 or 2 universal inputs:
Input range	4...20mA / 0...20mA, 0-10V 0-150 mV, RTD or TC,
Output type	0, 1 or 2 REL outputs (electronic NO) 0, 1 or 2 REL outputs (electronic NO)
Power supply	
Interface	RS-485 / Modbus RTU
Operating temp.	RS-485 / Modbus RTU -30...+80°C, case with electronics

ProSens QM-612
cable probe L=90mm, dia. 18mm,
cable or separable probe
1 or 2 universal inputs: 0…20mA / 4…20 mA, 0-10V, 0-150 mV, RTD or TC
0, 1 or 2 REL outputs (electronic NO)

11...36V DC, 16...36V DC (0...10V out.)
RS-485 / Modbus RTU
-30...+80°C, case with electronics

ProSens QM-421
axial, L=200 or 300mm, dia. 12mm

1 or 2 universal inputs: 0…20mA / 4…20 mA, 0-10V, 0-150 mV, RTD or TC
depends on configuration: (electronic NO), 24V AC/35V DC, max. 200 mA
11...36V DC, 16...36V DC (0...10V out.)
RS-485 / Modbus RTU
-30...+80°C, case with electronics

Model	**ProSens QM-422**
Type of probe	axial, L=200 or 300mm, dia. 12mm
Input range	1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
Output type	depends on configuration: (electronic NO), 24V AC/35V DC, max. 200 mA
Power supply	11...36V DC, 16...36V DC (0...10V out.)
Interface	RS-485 / Modbus RTU
Operating temp.	-30...+80°C, case with electronics

ProSens QM-621 / QM-622
cable probe L=90mm, dia. 18mm, cable probe

1 or 2 universal inputs: 4...20mA / 0...20mA, 0-10V, 0-150 mV, RTD or TC
0.1 or 2 REL outputs (electronic NO)

11...36V DC, 16...36V DC (0...10V out.)
RS-485 / Modbus RTU
-30...+80°C, case with electronics

Model	**SPT-88**
Type of probe	Pt100 / TC
Input range	Pt100, Thermocouple
Output type	4...20 mA, 2-wire
Power supply	9…30V DC
Interface	±0.4%

Model	**MultiCon CMC-141**
Type of probe	depends on configuration
Input range	4..20 mA, 0/1..5V, 0/2..10V, 0...30V etc.
Output type	24 analogue 4...20 mA max. , 36 relay 1A/250V max.
Power supply	16...35V AC, 19...50V DC, 85..260VAC/DC
Interface	RS-485 / Modbus RTU, USB Host port, ETU, ACM
Operating temp.	0...+50°C, -20…+50°C

MultiLog SRD-99W
mA, V, mV, RTD, TC
4..20 mA, 0…60mV, 75mV, 100mV etc.
electronic relay NO, 24V AC/35V DC, max. 200 mA
16...35V AC, 19...50V DC, 85..260VAC/DC
RS-485 / Modbus RTU, USB Host port, USB PC port
0...+50°C, -20…+50°C

vögtlin instruments

3rd Generation

Digital Communication
Mass Flow Meters & Mass Flow Controllers
for Air & Gases

제3세대 디지털 질량유량계와 질량유량콘트롤러

red–y smart, compact & industrial version
Accuracy 0.3% & 1.5% 지원

Swiss made

배터리 구동 휴대용 red–y compact
Accuracy 1.0% & 2.0% 지원

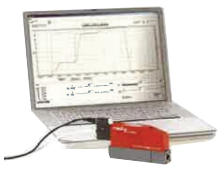
Profibus communication

Profibus 인터페이스 (DP–VO 및 DP–V1 프로토콜)와 함께 사용할 수 있습니다.

다양한 종류 가스측정

최대 10개의 다른 가스 또는 가스 혼합물에 사용할 수 있습니다.

무료 소프트웨어 지원 및 컴퓨터 통신



3년 보증기간

고품질 구성 요소를 통해 장기간에 걸쳐 문제 없는 작동을 보장합니다.

3 YEAR WARRANTY

측정 가스의 종류: Air, O_2, N_2, He, Ar, CO_2, H_2, CH_4, C_3H_8, SF_6

Instrument characteristics of compact series

- ***CMOS sensor technology***
- ***High accuracy and turndown ratio***
- ***No moving parts***
- ***On-the-spot direct reading, including bar graph***
- ***Totalizer function***
- ***optional manual valve and switch functions***

Instrument characteristics of smart series

- ***Digital and analog interface as standard***
- ***Short response time for meters and controllers***
- ***Temperature measurement as standard [digital]***
- ***Housing materials: Aluminium or stainless steel***
- ***Hi-performance***

red-y Compact Series

Digital mass flow meter & controller

- Accuracy 2% F.S
- >200In/min ±3.0% of F.S
- Turndown 1:50,
- Flow upto 450 In/min
- Power supply: 24V

GCM
Digital mass flow meter

GCS
- with alarm functions

GCY
- Analog output: 4…20mA

GCR
Battery / 24V / 80-230V
- Regulator with manual valve

GCA
24V
- Regulator with manual valve
- Alarm module:
- 2 x SPDT,1 x SPDT

GCZ
24V
- Regulator with manual valve
- Analog output: 4…20mA

red-y Smart Series

High precision digital mass flow

- Accuracy ± 1.0% of FS
- Turndown 1 / 1:50
- Flow upto 450 In/min
- Anodized aluminum

GSM
Mass Flow Meter

GSC
Mass Flow Controller
a/w magnetic valve

red-y Smart Pressure Controllers

GSM
Electronic
pressure controller

GSB
Electronic back
pressure controller

red-y Industrial Series

High precision digital mass flow with stainless steel housing

- IP67
- Ex.±1.0 % of FS / 1:50
- Flow upto 450 In/min
- Stainless steel 316L

GIM
Digital mass flow meter

GIC
Digital mass flow controller

GIE
Digital mass flow controller
External valve

Multi-Parameter

Multi-parameter mass flow

- High accuracy optional
- Flow upto 1400 In/min
- Stainless steel 316L(1.4404) / aluminum

DFM
Digital mass flow meter

DFC
Digital mass flow controller

VA-Flowmeters (variable area)

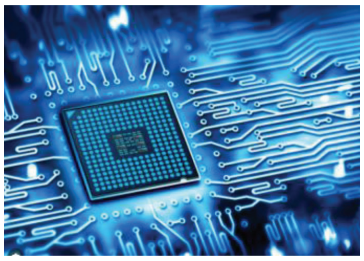
Series M-Flow

High-precision control valves
for fine dosages of gases & liquids
- upto 40 bar
- -40°C to 100°C
- FKM, EPDM, FFKM

Market Segment

Oil & Gas

Transportation



Semiconductor

Automobile

Pneumatic & Hydraulic

Petro-/Chemical

Food & Beverage

Shipbuilding

Pharmaceutical

Water Treatment

Power & Energy

Machinery

WE PURSUE... *the highest quality of the instrument we make while maintaining principles and trust*

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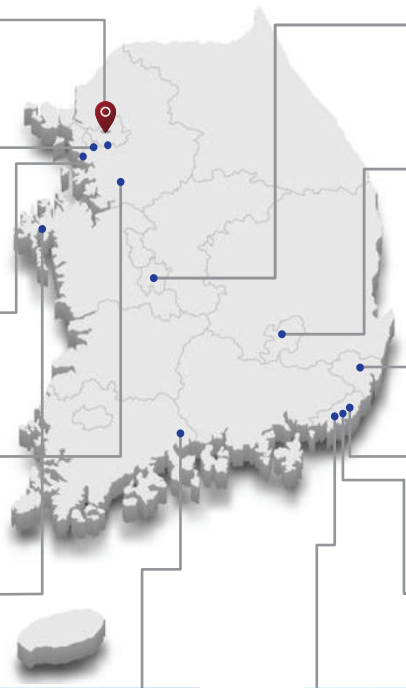

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