DAHO short form leaflet_ver.26









14-17 KELLER
18 STW
19-20 Labom
21 METALLUX
22 Mid-West Instrument
23 europascal Calibration Experts
24 simex
25-26 vögtlin instruments

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

The Highest Production Quality in Korea

- *Pressure Gauges*
- *Pressure Transmitters*
- *Temperature Gauges*
- *Temperature Sensors & Transmitters*



Daho Centre Building [Guro-dong, scheduled for occupancy in June 2027]

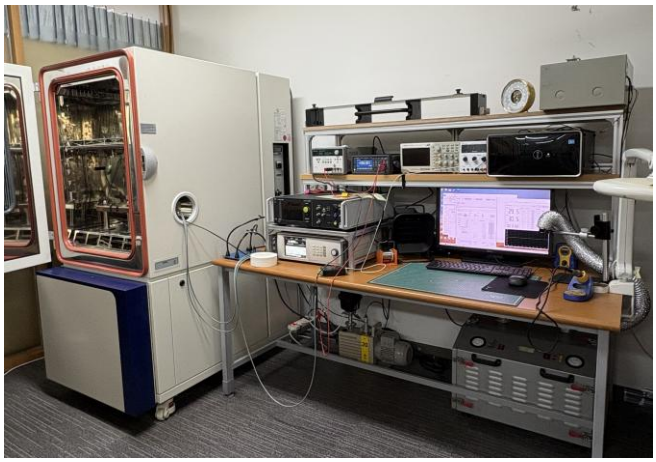


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Company Profile

Established on July 1, 2000, DAHO Tronic specializes in pressure, temperature, humidity, and flow instrumentation. We represent leading global manufacturers, including KELLER (Switzerland) for piezoresistive silicon pressure sensors, Metallux (Switzerland) for ceramic pressure sensors, STW (Germany) for thin-film pressure sensors, LABOM (Germany) for pressure and temperature instrumentation, Mid-West Instrument (USA) for differential pressure gauges, and Vögtlin (Switzerland) for digital gas flow measurement systems. Through these partnerships, we supply advanced instrumentation solutions to a wide range of process industries in Korea.

In 2011, DAHO established its manufacturing facility and R&D center in Seoul, covering 1,474 m² (446 pyeong). Since then, we have continuously invested in product development, manufacturing facilities, and testing equipment to become a specialized manufacturer of pressure instrumentation. We are also expanding our product certifications to meet domestic and international industrial standards.

Milestones

- Apr. 2014 – Established Corporate R&D Center
- Apr. 2014 – KOLAS Accreditation (KS Q ISO/IEC 17025, Pressure & Temperature)
- Sep. 2014 – ISO 9001 Certified

Since 2014, DAHO has developed and manufactured a wide range of pressure gauges, pressure sensors, and transmitters. Many products have obtained CE certification, while selected models are certified for hazardous areas (Explosion-proof) in Korea. With advanced R&D capabilities, modern production facilities, and comprehensive testing equipment, DAHO continues to strengthen its position as one of Korea's leading manufacturers of pressure instrumentation.

Today, DAHO products are widely used in semiconductor, hydrogen, automotive, shipbuilding, transformer, petrochemical, power generation, railway, hydraulic & pneumatic, water treatment, HVAC, pharmaceutical, and food & beverage industries. We continue to replace imported products by providing reliable, high-quality solutions developed with our own technology.

With a dedicated R&D center, experienced engineering team, and advanced manufacturing system, DAHO Tronic is committed to becoming a global leader in pressure measurement technology.

Corporate R&D Center(KOITA – Korea Industrial Technology Association)

DAHO Tronic established its Corporate R&D Center in April 2014. Since 1997, we have built extensive expertise through long-term partnerships with leading pressure instrumentation manufacturers in Germany and Switzerland. Based on this experience, we established our own development, testing, and manufacturing systems and began developing products optimized for the Korean industrial market.

Our first focus was the development of mechanical pressure gauges. After years of continuous improvement, DAHO achieved high durability and measurement accuracy. Today, our products have been supplied for more than 15 years to Korea's shipbuilding industry for marine engine control panels. We also supply approximately 100,000 pressure gauges annually to leading CNC machine manufacturers, including DN Solutions and Hyundai WIA, for applications requiring excellent vibration and pulsation resistance. In addition, our All Stainless Steel Pressure Gauges have been supplied to the petrochemical industry through LG Group purchasing channels for over 10 years.

Development of pressure transmitters began in 2015. Following several years of intensive R&D and collaboration with highly qualified engineers, including graduates from KAIST and U.S. universities, DAHO successfully launched its first pressure transmitter for the Korean market. Since then, our products have gained recognition from a wide range of industrial customers.

Since 2025, DAHO has expanded its pressure transmitter portfolio for secondary battery, semiconductor, automotive, and shipbuilding industries, where imported products have traditionally dominated the market. We also introduced a dedicated Hydrogen Pressure Transmitter for hydrogen applications and started mass production.

DAHO has obtained Korean Explosion-proof Certification and continues to invest in advanced R&D, manufacturing facilities, and product certifications. We are currently pursuing additional approvals, including Food & Pharmaceutical, Marine Approval, and other international certifications to support further expansion into global markets.



ISO9001:2015 CERTIFIED





KOLAS Accredited Calibration Laboratory

DAHO Tronic operates a KOLAS-accredited calibration laboratory for pressure and temperature measurements. Our qualified calibration engineers perform accurate calibration using high-precision equipment in accordance with internationally recognized standards. Calibration certificates are issued for pressure and temperature instruments to ensure reliable measurement performance.

All DAHO products undergo 100% inspection before shipment. Depending on customer requirements, we provide either DAHO Measurement & Calibration Certificates (DMCC) or KOLAS Calibration Certificates. Our quality assurance system has earned the trust of customers in both domestic and international markets.

Every stage of manufacturing, inspection, and calibration is carried out in strict compliance with the ISO 9001 Quality Management System, ensuring consistent product quality, reliability, and long-term customer satisfaction.

Pressure Calibration Range

Calibration Item	Measurement Range	
Liquid Column Manometer	0…100 kPa	
Absolute Pressure Gauge	0.01…7 MPa abs.	
Compound Pressure Gauge	-0.09…7 MPa	
Differential Pressure Gauge	0…7 MPa	
Gauge Pressure Gauge	0…400 MPa	
Dial Vacuum Gauge	-90…0 kPa	
Pressure Transmitter	Absolute Pressure	0.01…7 MPa abs.
	Gauge Pressure	-0.09…400 MPa

Temperature Calibration Range

Calibration Item	Measurement Range
Temperature Calibrator	-39…1100 ℃
Temperature Indicator	-39…1100 ℃
Liquid-in-Glass Thermometer	-39…250 ℃
Resistance Thermometer	-39…500 ℃
Bimetal Thermometer	-39…500 ℃
Thermocouple	-39…1100 ℃
Temperature Transmitter	-39…1100 ℃

Manufacturing Facilities & Production



As a specialized manufacturer of industrial instrumentation, DAHO Tronic maintains advanced production facilities and a well-controlled manufacturing system to ensure consistent product quality. Most assembly processes are carried out using state-of-the-art equipment designed for precision manufacturing.Our production lines are equipped with advanced manufacturing and testing equipment for pressure and temperature instruments. In addition, all products are verified using high-precision calibration systems, ensuring reliable performance, consistent quality, and compliance with international standards.





For general industrial applications

EDN.305
General Industrial



0.5% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Wetted Parts: Stainless Steel 316L
- Suitable for a Wide Range of Industrial Applications
- Stable Signal against Noise and Surge

EDN.303
High-Performance



0.25% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Wetted Parts: Stainless Steel 316L
- High Accuracy for Industrial Applications
- Stable Signal against Noise and Surge

EDN.301
High-Precision



0.1% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Wetted Parts: Stainless Steel 316L
- High Accuracy, Designed for Industrial Applications
- Stable Signal against Noise and Surge

EDN.309
General Hydraulic & Pneumatic / OEM



0.5% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Wetted Parts: Stainless Steel 316L
- For Industrial, Hydraulic & Pneumatic Applications
- Stable Signal against Noise and Surge

Various industrial applications

EDN.320
Flush Diaphragm



0.5% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Wetted Parts: Stainless Steel 316L
- Suitable for a Wide Range of Industrial Applications
- Stable Signal against Noise and Surge

EDN.331
For Field and Outdoor Installation



0.5% / 0.25% / 0.1% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Thermocouple Head Design
- Highly Robust and Durable Construction
- Aluminum Housing with Excellent UV Resistance

For HVAC

EDN.336
For HVAC & Refrigeration Applications



0.1% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- Suitable for Low-Pressure Applications with Temperature Variations
- Stable Analog Output Signal
- Suitable for Low-Temperature and Low-Pressure Applications

EDN.337
For Refrigerant Gas Applications, HFC-134



0.5% F.S
from -1…0 to 0…1000 bar 4…
20mA, 0…10V, 0…5V, 1…5V

- No welding part on sensor
- Stable Analog Output Signal
- Suitable for Low-Temperature and Low-Pressure Applications

For low pressure

EDN.324
For Low-Pressure Applications



0.5% F.S
from ± 10 mbar to 0…1000 mbar 4
…20mA, 0…10V, 0…5V, 1…5V

- Minimum Span: ±10 mbar
- Stable Analog Output Signal
- Highly Resistant to Noise and Surge

EDN.335
For Semiconductor Scrubber Applications



0.5% / 0.25% / 0.1% F.S
±25, ±50, ±250, ±500 mbar 4…
20mA, 0…10V, 0…5V, 1…5V

- 10 mm Hole in the Process Connection
- Designed for Semiconductor Scrubber Systems
- Compatible with Equivalent Products

For pumps, air compressors, heating system

EDN.332
For Pumps (Inverters) and compressors



0.5% / 0.25% / 0.1% F.S
0…10, 16, 25 bar
4…20mA, 0…10V, 0…5V, 1…5V

- Highly Resistant to Noise and Surge
- Highly Resistant to Vibration and Pulsation
- Wetted Parts: Stainless Steel 316L

EDN.338
For Heat Exchanger Applications



0.5% / 0.25% / 0.1% F.S from 0
…4 bar to 0…250 bar 4…20mA,
0…10V, 0…5V, 1…5V

- Extended Temperature Compensation Range
- Stable Analog Output Signal
- Highly Resistant to Vibration and Pulsation

For differential measurement

EDN.350
Differential Pressure Transmitter



0.5% F.S
0.25% F.S
from 0…20 mbar to 0…16 bar 4
…20mA, 0…10V, 0…5V, 1…5V

- Suitable for Filter Applications
- Suitable for HVAC & Refrigeration Applications

For differential measurement

ETX.405
Thin-film sensors



0.5% / 0.15% F.S
0…250, 400, 600 bar
4…20mA

- Highly Resistant to Vibration and Pulsation
- Designed for Hydraulic Systems
- Suitable for Pumps and Hydraulic Systems

For water & fuel level measurement

EDN.366
Pressure Transmitter for Level Measurement



0.5% F.S
from 0…10 mbar to 0…30 bar 4
…20mA, 0…10V, 0…5V, 1…5V

- Stainless Steel Construction
- Suitable for Level Measurement of Various Liquids
- Designed for Open-Tank Applications

EDN.369
Pressure Transmitter for Level Measurement



0.5% F.S
from 0…10 mbar to 0…30 bar 4
…20mA, 0…10V, 0…5V, 1…5V

- Stainless Steel Construction
- Threaded Connection for Direct Piping Installation
- Designed for Open-Tank Applications

ZERO & SPAN adjustment function

EDA.370
zero & span adj. intenal



0.5% / 0.25% / 0.1% F.S from -1 …0 to 0…1000 bar 4…20mA, 0 …10V, 0…5V, 1…5V

- Internal Zero/Span Adjustment
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

EDA.371
zero & span adj. the side



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar 4… 20mA, 0…10V, 0…5V, 1…5V

- Side-Mounted Zero/Span Adjustment
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

RS485 communicate & analog output

ERS.307
only for RS485 communicate



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar Modbus RTU

- RS485 Communication
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

ERS.308
Analog output & RS485



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar 4… 20mA, 0…10V, 0…5V, 1…5V

- RS485 Communication and Analog Output
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

For SF6 Gas Density Monitoring

EGD.340
SF6 Gas Density Monitoring



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar 4… 20mA, 0…10V, 0…5V, 1…5V

- Temperature Compensation for SF6 Gas
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

EGD.341
SF6 Gas Density Monitoring



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar RS485 & 4…20mA, 0…10V, others

- Temperature Compensation for SF6 Gas
- Long-Term Accuracy and Stability
- Stable Signal against Noise and Surge

For secondary battery

EDR.345 Secondary Battery
0.5…4.5 / 5V ratio-metric



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar 0.5…4.5V / 5V, ratio-metric

- Advanced Design Technology
- Protection Circuit against Noise and Surge
- Designed for Secondary Battery and Automotive Applications

For hygenic

EDN.313 Hygienic Applications
Hygienic Pressure Transmitter



0.5% F.S F.S from 0…100mbar to 0…40 bar 4 …20mA, 0…10V, 0…5V, 1…5V

- High Accuracy through Vacuum Calibration
- Standard Operating Temperature: Up to 120 °C
- upto 200℃ / 300℃ cooling tower

For semiconductor industry

EDA.375
Circular connection



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar Ony for 4…20mA

- All st. steel wetted parts
- Electropolished, typ. Ra≤0.13um, max. Ra ≤0.18um per SEMI F19

EDA.376
Union & male nut, fixed, rotatable



0.5% / 0.25% / 0.1% F.S from -1…0 to 0…1000 bar Ony for 4…20mA

- All st. steel wetted parts
- Electropolished, typ. Ra≤0.13um, max. Ra ≤0.18um per SEMI F19

For shipbuilding industry

EDN.380
for marine applications



0.5% / 0.25% / 0.1% F.S from -1 …0 to 0…1000 bar 4…20mA, 0… 10V, 0…5V, 1…5V

- All st. steel wetted parts
- Designed and Developed for Marine Applications
- Highly Resistant to Vibration with EMC/EMI Protection

AC45 & AC46
LCD / LED Indicators



a/w only for DIN43650A plug from -1…0 to 0…1000 bar Ony for 4…20mA

- AC45, LCD & AC46, LED
- 4 1/2 digit disply
- Compact Design

Assembled with diaphragm seals

EDN.314
Homogenizer / Homogenizer



0.5% F.S upto 0…1000 bar 4…20mA, 0…10V, 0…5V, 1…5V

- Designed for High Vibration and Pulsation Environments
- Highly Resistant to Noise and Surge
- Suitable for Food, Beverage and Pharmaceutical Industries

EDN.315
Threaded Diaphragm Design



0.5% F.S upto 0…100 bar 4…20mA, 0…10V, 0…5V, 1…5V

- Body made of stainless steel 316L
- Diaphragms Available in Various Metal Materials
- Suitable for Acidic, Corrosive, Alkaline, and Toxic Media

EDN.316
Flanged Diaphragm Type



0.5% F.S upto 0…100 bar 4…20mA, 0…10V, 0…5V, 1…5V

- PTFE Diaphragm Available
- Available with Various Flange Standards
- Suitable for Acidic, Corrosive, Alkaline, and Toxic Media

EDN.317
Double-Flange Design



0.5% F.S from 0…100 bar 4…20mA, 0…10V, 0…5V, 1…5V

- Suitable for High-Temperature Applications up to 350°C
- Suitable for High-Viscosity Fluids
- Suitable for Corrosive and Acidic Media

- Explosion flame-proof version certified by KOSHA
- Nominal pressure -1…0 to 0…1000 bar
- Ex d IIC T6 IP65 Explosion-proof pressure transmitter
  - Ex d IIC T6, -20...80℃
  - Ex d IIB + H2 T4, -40…120℃
- Accuracy ≤ 0.5% FS, ≤ 0.25%F.S, ≤ 0.1% F.S
- Process media temperatire -20…100℃ / option -40…120℃
- Wetted parts made of all stainless steel
- Many process connections available for hygienic and demanding application
- High resolution graphic display with intuitive user interface and backlight

EDN.610 — Ex d IIC T6 IP65

For general applications



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ General explosion flameproof ■ Wetted parts made of all stainless steel

EDN.620

with flush diaphragm



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ All st. steel wetted parts ■ High stable and accurated measurement

EDN.630 — Ex d IIB+H2 T4 IP65

For general applications





Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Hydrogen explosion flameproof ■ Gold plated on st. steel diaphragm ■ Hydrogen application

EDN.613

For hygienic applications



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	0…40 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted part: Made of all st. steel

EDN.614 — a/w CDS.941

For omogenizer applications



Accuracy	0.5% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted part: Made of all st. steel

EDN.615 — a/w CDS.911

Threaded design a/w internal diaphragm



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted part: Made of all st. steel

EDN.616 — a/w CDS.951

Process-flange with diaphragm



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts: Diaphragm SUS316L, PTFE, Hastelloy, Inconel, Monel,Titanium, Tantalum

EDN.617 — a/w CDS.913

Double process-flange a/w internal diaphragm



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts: Made of all st. steel Teflon coating available

EDN.650

Differential pressure transmitter



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from 0…20 mbar to 0…20 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts: Made of st. steel

- Explosion flame-proof version certified by KOSHA
- Nominal pressure -1…0 to 0…1000 bar
- Certification Scope for Explosion-Proof Pressure Transmitters
  - Ex d IIC T6, -20...80°C
  - Ex d IIB + H2 T6, -20…80°C
- Accuracy ≤ 0.5% FS, ≤ 0.25%F.S, ≤ 0.1% F.S
- Process media temperatire -20…100℃ / option -40…120℃
- Wetted parts made of all stainless steel
- Many process connections available for hygienic and demanding application
- High resolution graphic display with intuitive user interface and backlight

EDN.710 Ex d IIC T6 IP65

Housing Type Pressure Transmitters with Thread Connections



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts stainless steel ■ White back light

EDN.720

Housing Type Pressure Transmitters with Flush Diaphragm



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts stainless steel ■ White back light

EDN.730 Ex d IIB+H2 T6 IP65

Housing Type Pressure Transmitters with Thread Connections & Gold plated





Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Specialfeatures	■ Explosion flameproof version ■ Wetted parts stainless steel ■ Gold plated pressure sensors

EDN.713

For hygienic applications



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	0…40 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts stainless steel ■ White back light

EDN.715

Housing Type Pressure Transmitters with intermediately diaphragm



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts stainless steel ■ White back light

EDN.716

Process-flange connection assembled with diaphragm internally



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Wetted parts	■ Diaphragm: SUS316L, PTFE, Hastelloy Inconel, Monel, Titanium, Tantalum

EDN.717

Housing Type Pressure Transmitters with Double process-flange connection



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Diaphragm: SUS316L, PTFE, Hastelloy Inconel, Monel, Titanium, Tantalum

EDN.750

Differential Pressure Transmitters LCD monitoring



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from 0…20 mbar to 0…20 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ Wetted parts all stainless steel ■ Direct monitoring for pressure

EDN.761

General water & fuel level measurement





Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from 0…10 mbar to 0…30 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ All st. steel ■ High accuracy piezoresistive level probe

- Explosion flame-proof version certified by KOSHA [Scheduled for August 2026]
- Nominal pressure -1…0 to 0…1000 bar
- Certification Scope for Explosion-Proof Pressure Transmitters
  - Ex d IIC T6, -20...80°C
  - Ex d IIB + H2 T6, -20…80°C
- Accuracy ≤ 0.5% FS, ≤ 0.25%F.S, ≤ 0.1% F.S
- Process media temperatire -20…100℃ / option -40…120℃
- Wetted parts made of all stainless steel
- Many process connections available for hygienic and demanding application
- High resolution graphic display with intuitive user interface and backlight

EDN.810 Ex d IIC T6 IP65

Housing Pressure Transmitters with Thread Connections



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.820

Housing Pressure Transmitters with Flush Diaphragm



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.830 Ex d IIB+H2 T6 IP65

Housing Pressure Transmitters with Thread Connections & Gold plated



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.815

Housing Pressure Transmitters with intermediately diaphragm



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.816

Process-flange connection assembled with diaphragm internally



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.817

Housing Pressure Transmitters with Double process-flange connection



Accuracy	0.5% F.S
Pressure range	0…250 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.850 *under construction*

Differential Pressure Transmitters, LCD



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from -1…0 to 0…1000 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ Explosion flameproof version ■ All wetted parts made of st. steel ■ Wetted parts made of all st. steel

EDN.861

Differential Pressure Transmitters, LCD



Accuracy	0.5% / 0.25% / 0.1% F.S
Pressure range	from 0…10 mbar to 0…30 bar
Output signal	4…20mA, 0…10V, 0…5V, 1…5V
Special features	■ All st. steel ■ High accuracy piezoresistive level probe

Utility pressure gauges

MBS
Black Steel Case



40,50,63,80,100mm from -1…0 bar to 0…400 bar 2.5%, 1.6%

- Black Steel Case
- Hydraulic & Pneumatic Gauge
- Compact Dial

General Pressure Gauge

MBX
Wetted parts, Brass



63, 100mm
from -1…0 bar to 0…1000 bar
1.6%, 1.0%

- Wetted parts, Brass
- General Service
- Hydraulic and pneumatic gauge

All st. st. pressure gauge

MAX
All Stainless Steel



40,50,63,80,100,160mm from -1… 0 to 0…1600 bar 2.5%, 1.6%, 1.0%

- 316L Wetted Parts
- Industrial Service
- Gas, Liquid & Aggressive Media

For high pressure

MXH
Max. upto 4000bar



100mm, 160mm
from 0…2000 to 0…4000 bar
1.0%

- 316L Wetted Parts
- Industrial Service
- High Pressure

Safety pattern design

MSP
Safety pattern



100mm
from -1…0 to 0…1000 bar
1.0%

- 316L Wetted Parts
- Safety pattern design
- Oil & Gas Service

For strong vibration

MAV
Anti-Vibration Movement



100mm
from -1…0 to 0…1000 bar
1.0%

- Anti-Vibration
- Heavy Vibration
- Gas & Liquid

SF6 gas density monitoring pressure switches

MGD
SF6 Gas Density Monitoring



100mm
from 0…1.6 to 0…25 bar
1.0%

- Bimetal Compensation

SGD
SF6 Gas Density Monitoring



100mm
from 0…1.6 to 0…25 bar
1.0%

- Temperature Compensated
- Bellows Type

For low pressure measurement

MLC
Element type: Capsule



100mm
from 0…25 mbar to 0…600 mbar
1.6% (≥40 mbar)

- Capsule Element
- Low Pressure
- st. steel

MLD
with diaphragm type



100mm
from 0…16 mbar to 0…1000 mbar
1.6% & 2.5% with selection of a coating

- Large Diaphragm
- Low Pressure
- Various Media

Contact Pressure Gauge

MMS *Contact*
Magnetic switches



100mm
from -1…0 to 0…1000 bar
1.0%

- Magnetic Contact
- Process Control
- Petrochemical & Power

MIS *Non-contact*
Inductive switches



100mm
from -1…0 to 0…1000 bar
1.0%

- Inductive Contact
- Hazardous Areas
- Petrochemical & Power

Diaphragm pressure gauges

MAX.510 a/w CDS.911
Flange with thread connection



a/w MAX series: 63, 80,100mm
from -1...0 bar to 0…40 bar
1.0% FS

- SUS316 Standard
- Ti / Ta / HC Option
- Thread Connection

MAX.510 a/w CDS.951
Flanges connection



a/w MAX series: 63, 80,100mm
from -1...0 bar to 0…40 bar
1.0% FS

- SUS316 Standard
- Ti / Ta / HC Option
- RF / FF Flange

MAX.510 a/w CDS.913
Double flange connection



a/w MAX series: 63, 80,100mm
from 0...0.6 bar to 0…40 bar
1.0% FS

- SUS316 Standard
- Ti / Ta / HC Option
- RF / FF Flange

MAX.510 a/w CDS.933
Sanitary diaphragms



a/w MAX series: 63, 80,100mm
from -1...0 bar to 0…40 bar
1.0% FS
1S, 1.5S, 2S, 2.5S, 3S, 3.5S

- Hygienic Service
- ASME / ISO 1127

CDS.911
Threaded connection type



Threaded Diaphragm seal
from -1…0 to 0…40 bar

- Assembly & Calibration
- Threaded Diaphragm
- PTFE / Ti / Ta
- Special Materials

CDS.913
Double flange connection



Double diaphragm seal
from 0…0.6 bar to 0…40 bar

- Assembly & Calibration
- Double Flange
- PTFE Wetted Parts
- Special Coating

CDS.921
Flush diaphragm seal



Flush diaphragm with Thread
from -1…0 to 0…400 bar

- Assembly & Calibration
- G1/2A Flush Thread
- PTFE / Ti / Ta
- Special Coating

CDS.951
Flange diaphragm connection



Flange diaphragm
from -1…0 to 0…40 bar

- Assembly & Calibration
- Flange Diaphragm
- PTFE / Ti / Ta
- Special Coating

CDS.933
Sanitary diaphragm



Tri-clamp diaphragm seal
from 0…0.6 bar to 0…40 bar

- Assembly & Calibration
- Food & Pharma
- diaphragmRa≤0.18um
- ASME, ISO1127

CDS.941
Homogenizer block



Homogenizer block diaphragm seal
from 0…160 to 0…1000 bar

- Homogenizer Block
- Food & Pharma
- PTFE / Ti / Ta
- Special Materials

CDS.953
Extension diaphragm



Extension diaphragm
DIN EN, EN 10 to 40

- Extended Diaphragm
- 316L / PTFE
- Ti / Ta / HC
- Special Materials

CDS.951 / CDS.953 + Capillary
Cellular type



Cellualar type, "Pancake"
DIN EN with extension

- Capillary Calibration
- Capillary line with G1/2" female
- PN 16 to 100
- st. steel 316L

Digital Pressure Gauges

ODI-3G
63mm



1.0%
-1…0 to 0…250 bar
kPa, psi, Kg/cm2, bar, Mpa
2 times / sec
Zero offset

- Dial Size Accuracy

ODI-4G
80mm



0.4%
0…100 mbar to 0…600 bar
kPa, psi, Kg/cm2, bar, Mpa
3 times / sec

- AAA batery x 2 pcs
- Dial Size Accuracy

ODI-4H
80mm



0.2%
0…100 mbar to 0…600 bar
kPa, psi, Kg/cm2, bar, Mpa
3 times / sec

- AAA batery x 2 pcs
- Dial Size Accuracy

ODI-5G
100mm



0.4%
0…50 mbar to 0…1000 bar
MPa, bar, psi, mbar, Kg/cm2, kPa,
mmHg, mH2O, Torr
5 times / sec

- AAA batery x 2 pcs

For anti-corrossion

ODI-5H
100mm



0.2%
0…50 mabr to 0…1000 bar
MPa, bar, psi, mbar, Kg/cm2, kPa,
mmHg, mH2O, Torr
5 times / sec

- AAA batery x 2 pcs

ODI-5P / with Plastic case
100mm



0.1%
-1…0 mabr to 0…600 bar
MPa, bar, psi, mbar, Kg/cm2, kPa,
AA batery x 3 pcs / USB supply
1…10 times / sec

- AA batery x 3 pcs / USB supply

ODi-5PH / with Plastic case
100mm



0.1%
-1…0 mabr to 0…600 bar
MPa, bar, psi, mbar, Kg/cm2, kPa,
mmHg, mH2O, Torr
1…10 times / sec

- AA batery x 3 pcs / USB supply

MAP
Thermoplastic case



0.5%
from -1…0 & 0…0.6 to 0…1000 bar
1.0%

- Corrosion Resistant
- Liquids & Gases
- Aggressive Media

TBS
Bimetal Temperature Gauges



Dial size	100 mm
Temp. range	from -20…+40 to 0…+600 °C
Accuracy	± 2.0% F.S
Stem diameter	6.4mm, 8mm
Stem length	depending on user's specification
Material(case)	stainless steel, SUS 304
Material(stem)	stainless steel, SUS 304
Connections	PT1/2", PT1/4" & others on request

TBA
Every Angle Bimetal Temperature Gauges



Dial size	100 mm
Temp. range	from -20…+40 to 0…+600 °C
Accuracy	± 2.0% F.S
Stem diameter	6.4mm, 8mm
Stem length	depending on user's specification
Material(case)	stainless steel, SUS 304
Material(stem)	stainless steel, SUS 304
Connections	PT1/2", PT1/4" & others on request

TGS
Gas Expansion Thermometers



Dial size	100 mm
Temp. range	from -20…+40 to 0…+600 °C
Accuracy	± 2.0% F.S
Stem diameter	6.4mm, 8mm
Stem length	depending on user's specification
Material(case)	stainless steel, SUS 304
Material(stem)	stainless steel, SUS 304
Connections	PT1/2", PT1/4" & others on request

TSR
RTD Sensor Pt 100 Ω (stem with cable)



Temp. range	-196…+600 °C (opt. upto 800°C)
Accuracy	Class A, Class B
Stem diameter	6 mm, 8 mm
Stem length	100…1100mm
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TSC
Thermocouples (stem with cable)



Temp. range	-40…+1200 °C
Type of sensor	K, J, E, N, T
Accuracy	Class 1, Class 2
Stem diameter	6 mm, 8 mm
Stem length	on request
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TSRH
RTD Sensor Pt 100 Ω (stem with head type)



Temp. range	-196…+600 °C (opt. upto 800°C)
Accuracy	Class A, Class B
Stem diameter	6 mm, 8 mm
Stem length	100…1100mm
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TSCH
Thermocouples (stem with head type)



Temp. range	-40…+1200 °C
Type of sensor	K, J, E, N, T
Accuracy	Class 1, Class 2
Stem diameter	6 mm, 8 mm
Stem length	on request
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TSRP
Screw-in RTD probe (Electric plug type)



Temp. range	-196…+600 °C (opt. upto 800°C)
Accuracy	Class A, Class B
Stem diameter	6 mm, 8 mm
Stem length	100…1100mm
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TSCP
Screw-in Thermocouples probe (Electric plug type)



Temp. range	-40…+1200 °C
Type of sensor	K, J, E, N, T
Accuracy	Class 1, Class 2
Stem diameter	6 mm, 8 mm
Stem length	on request
Material(case)	stainless steel 316L
Material(stem)	stainless steel 316L

TWP
Thermowells Pocket type

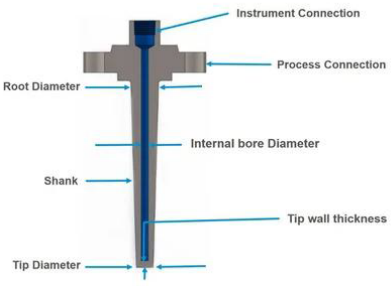


Thermowell form	Tapered, straight and stepped
Head type	Hexagon, round with hexagon round with spanner flats
Process conn.	NPT1/2", NPT3/4", NPT 1"
Material	stainless steel, special alloys
Bar diameter	upto 2 inch (50.8mm)
Pressure rating	ASME upto 200 bar or 400 bar

TWF
Thermowells Pocket type a/w Flanges



Thermowell form	Tapered, straight and stepped
Head type	Hexagon, round with hexagon round with spanner flats
Process conn.	NPT1/2", NPT3/4", NPT 1"
Material	stainless steel, special alloys
Nominal width	■ DIN/EN DN25…50 ■ ASME 1···2 inch
Pressure rating	■ DIN/EN upto PN100



TTR

RTD Sensor Pt 100 Ω
Temperature Transmitters (Round type)



Accuracy	850 °C < 0.4% FS
input sensor	RTD Sensor Pt 100 Ω
Temp. range	-200 … +850 °C
Output signal	4…20 mA, 2-wire
installation in	in-head mounting, DIN B housing
Material(case)	polycarbonate
Response time	>500 ms
Power supply	9…30 Vdc

TTC

Thermocouples
Temperature Transmitters (Round type)



Accuracy	1370 °C < 1 ℃ FS
input sensor	Thermocouples
Temp. range	-230… +1760 °C
Output signal	4…20 mA, 2-wire
installation in	in-head mounting, DIN B housing
Material(case)	polycarbonate
Response time	>500 ms
Power supply	9…30 Vdc

TTU

Universal
Temperature Transmitters (Round type)



Accuracy	1370 °C < 1 ℃ FS
input sensor	Universal
Temp. range	-230… +1760 °C
Output signal	4…20 mA, 2-wire
installation in	in-head mounting, DIN B housing
Material(case)	polycarbonate
Response time	>500 ms
Power supply	9…30 Vdc

TRHT

RTD Sensor Pt 100 Ω
Temperature Sensors + Transmitters



Accuracy	850 °C < 0.4% FS
input sensor	RTD Sensor Pt 100 Ω
Temp. range	-200 … +850 °C
Output signal	4…20 mA, 2-wire
Housing	Explosion proof aluminum housing
Measuring insert diameter	1/8" inch, 3/16" inch, 1/4" inch
	3.0 mm, 6.0 mm, 8.0 mm
Connections	NPT(R)3/8",NPT(R)1/2",G3/8",G1/2"

TCHT

Thermocouples
Temperature Sensors + Transmitters



Accuracy	1370 °C < 1 ℃ FS
input sensor	Thermocouples
Temp. range	-230… +1760 °C
Output signal	4…20 mA, 2-wire
Housing	Explosion proof aluminum housing
Measuring insert diameter	1/8" inch, 3/16" inch, 1/4" inch
	3.0 mm, 6.0 mm, 8.0 mm
Connections	NPT(R)3/8",NPT(R)1/2",G3/8",G1/2"

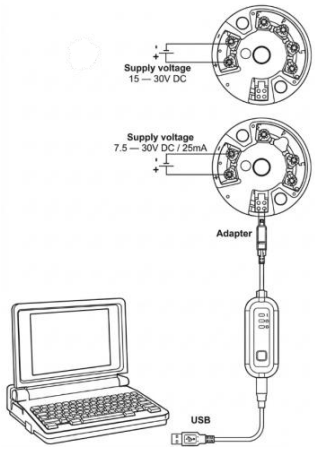
TUHT

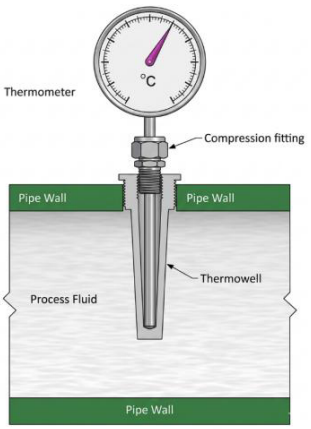
Universal
Temperature Sensors + Transmitters



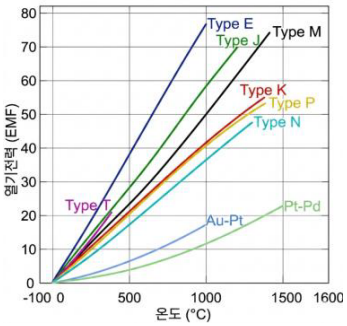
Accuracy	1370 °C < 1 ℃ FS
input sensor	Universal
Temp. range	-230… +1760 °C
Output signal	4…20 mA, 2-wire
Housing	Explosion proof aluminum housing
Measuring insert diameter	1/8" inch, 3/16" inch, 1/4" inch
	3.0 mm, 6.0 mm, 8.0 mm
Connections	NPT(R)3/8",NPT(R)1/2",G3/8",G1/2"

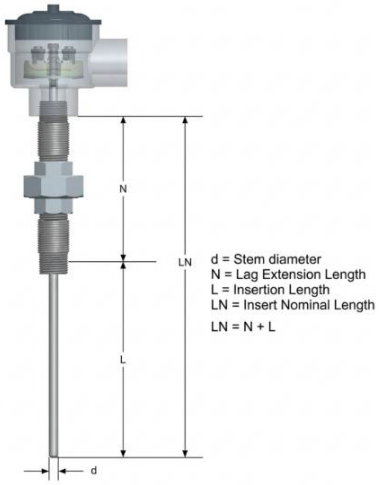
Connection layout for calibrating





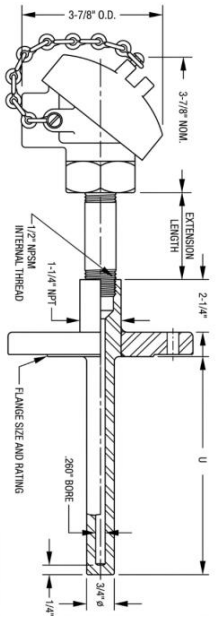
Thermocouples의 type





RTD의 type

Input	configurable: type of sensor and measuring range	max. measuring range	min. measuring span
RTD	Pt100 DIN IEC 751	- 200…+ 850 °C	25 K
JPt100	JIS C 1606	- 200…+ 500 °C	25 K
Ni 100	DIN 43760 : 1987-09	- 60…+ 250 °C	25 K



Industrial Market Segment



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