



AIMS
CONTROLS

**AN ISO 9001 : 2015
CERTIFIED COMPANY**

A ACCURATE MEASUREMENT

I INGENIOUS SERVICE

M MERITORIOUS QUALITY

S STAUNCH COMMITMENT



PRECISION IN PROCESS,

EXCELLENCE IN CONTROL.



Pressure



Temperature



Level



**Instrumentation
Valves & Fittings**

ABOUT US

AIMS Controls is the official Trademark of PI Controls Instruments Pvt. Ltd. (PI Controls).

Founded in 2018, PI Controls is a leading manufacturer of Process Control & measuring instruments. We have established an excellent reputation based on our technical expertise, product quality, ability to respond swiftly to customer needs, and first-class services. In 2018, the company set up a 3,500 sq. ft. manufacturing facility under the name PI Controls Instruments Private Limited, specializing in the production of Measuring & Control Instruments: Pressure and Temperature Gauges & Switches, Temperature Elements, Level Gauges, Level & Flow Switches, Instrumentation Fittings, Manifolds & Valves, and other relevant accessories.



COMPANY MISSION



- To find strategic partners and expand the current client base for our products, we envision a key group of managers overseeing individual areas and departments, forming an interconnected company team.
- No problem is ever too big or too small for us, every problem has a solution.

COMPANY VISION



- We aim to be leaders in supplying Measuring & Control Instruments to the Refinery, Petrochemical, Marine, HVAC, Power, Steel, Food, Cement, Fertilizer, Automobile, and allied industries.

OUR AIMS HEART VALUES

Honesty

Build Open and Honest Relationships through Communication.

Excellence

Do More with Less and Be Customer-Driven.

Accountability

Embrace and Drive Change.

Respect

Be Passionate and Determined.

Teamwork

Build a Positive Team Spirit and Pursue Growth and Learning.



We have grown into a dynamic company providing reliable instrumentation solutions for measuring and controlling pressure, temperature, level, and flow. Our clients, including leaders in the Food, Refinery, Petrochemical, Marine, HVAC, Power, Steel, Cement, Fertilizer, and Automobile industries, trust us for our honest service and commitment to excellence.

Our expert team is ready to tackle complex technical challenges, and if standard products don't meet your needs, we will work closely with you to deliver state-of-the-art solutions on time and within budget.



Our customer service representatives are highly trained, ensuring operational excellence and unmatched professionalism to deliver superior customer satisfaction and delight.

We stay updated with the latest market trends, allowing us to meet the specific needs of our global customers while maintaining the highest standards in our products and services. To ensure top-quality products, we have implemented a system of mandatory inspections and testing in accordance with national and international standards.



PRESSURE GAUGE



STANDARD FULL SS PRESSURE GAUGE

Dial Size : 40mm, 50mm, 63mm, 80mm, 100mm, 125mm, 150mm & 250mm
Ranges : -1 to 0....0.6 to 2100 bar
Wetted Parts : SS 316L & Monel
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 0.5, CL 1.0, CL 1.6 & CL 2.5
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN837-1, ANSI B40.1, IS 3624 & other National/International Standards



SOLID FRONT FULL SS PRESSURE GAUGE

Dial Size : 63mm, 100mm & 150mm
Ranges : -1 to 0....0.6 to 2100 bar
Wetted Parts : SS 316L & Monel
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 0.5, CL 1.0 & CL 1.6
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN837-1, ANSI B40.1, IS 3624 & other National/International Standards



PHENOL CASE SOLID FRONT PRESSURE GAUGE

Dial Size : 4.5"
Ranges : -1 to 0....0.6 to 2100 bar
Wetted Parts : SS 316L & Monel
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 0.5
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : ANSI B40.1



LOW PRESSURE CAPSULE PRESSURE GAUGES

Dial Size : 63mm, 100mm & 150mm
Ranges : -6000mmWC to 250mmWC to 6000mmWC
Wetted Parts : SS 316
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 1.6
Standard Followed : EN837-3 & other National/International Standards



SS CASE BRASS PRESSURE GAUGE

Dial Size : 40mm, 50mm, 63mm, 80mm, 100mm & 150mm
Ranges : -1 to 0....0.6 to 700bar
Wetted Parts : Copper Alloy
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 1.6 & CL 2.5
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN837-1, IS 3624 & other National/International Standards



LOW PRESSURE DIAPHRAGM PRESSURE GAUGES

Dial Size : 100mm & 150mm
Ranges : -1bar to 0.....250mmWC to 16bar
Wetted Parts : SS 316, Monel & Hastelloy 'C-276'
Mounting : Bottom, Back and with mounting bracket accessories
Accuracy : CL 1.6
Standard Followed : EN837-3 & other National/International Standards

PRESSURE GAUGE



ELECTRIC CONTACT STANDARD FULL SS PRESSURE GAUGE

Dial Size	: 100mm & 150mm
Ranges	: -1 to 0....0.6 to 2100 bar
Wetted Parts	: SS 316L & Monel
Mounting	: Bottom, Back and with mounting bracket accessories
Accuracy	: CL 0.5, CL 1.0 & CL 1.6
Dampening Liquid	: Dry, Fillable & Filled
Standard Followed	: EN837-1, ANSI B40.1, IS 3624 & other National/International Standards
Contact Type	: Magnetic Snap Action & ATEX Inductive Contact
No. of Contacts	: Single, Double & Triple Contacts for ON/OFF action



ELECTRIC CONTACT HI-CASE FULL SS PRESSURE GAUGE

Dial Size	: 100mm & 150mm
Ranges	: -1 to 0....0.6 to 2100 bar
Wetted Parts	: SS 316L & Monel
Mounting	: Bottom, Back and with mounting bracket accessories
Accuracy	: CL 0.5, CL 1.0 & CL 1.6
Dampening Liquid	: Dry, Fillable & Filled
Standard Followed	: EN837-1, ANSI B40.1, IS 3624 & other National/International Standards
Contact Type	: Magnetic Snap Action & ATEX Inductive Contact
No. of Contacts	: Single, Double & Triple Contacts for ON/OFF action



TRANSMITTER FULL SS PRESSURE GAUGE

Dial Size	: 100mm & 150mm
Ranges	: -1 to 0....0.6 to 600 bar
Wetted Parts	: SS 316L & Monel
Mounting	: Bottom, Back and with mounting bracket accessories
Accuracy	: CL 0.5(Transmitter)
Transmitter	: 2 Wire, 24VDC
Dampening Liquid	: Dry, Fillable & Filled
Standard Followed	: EN837-1, ANSI B40.1, IS 3624 & other National/International Standards



DIFFERENTIAL PRESSURE GAUGES - SINGLE & DOUBLE DIAPHRAGM

Type	: Single & Double Diaphragm
Dial Size	: 100mm & 150mm
Ranges	: -6000mmWC to 0.....250mmWC to 16bar
Static Pressure	: 60 bar (Single Diaphragm) & 100bar (Double Diaphragm)
Wetted Parts	: SS 316, Monel & Hastelloy 'C-276'
Mounting	: Bottom, Back and with mounting bracket accessories
Accuracy	: CL 1.6 & CL 2.5
Standard Followed	: EN837-3 & other National/International Standards



DIFFERENTIAL PRESSURE GAUGES - PISTON OPERATED

Dial Size	: 63mm, 100mm & 150mm
Ranges	: 25mbar to 4bar
Static Pressure	: 200bar
Wetted Parts	: SS 316
Mounting	: Bottom, Back and with mounting bracket accessories
Accuracy	: CL 1.6 & CL 2.5

TEMPERATURE GAUGE



BIMETAL TEMPERATURE GAUGE

Dial Size : 63mm, 80mm, 100mm, 125mm & 150mm
Ranges : -100°C to 0...50°C to 650°C
Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm
Mounting : Bottom, Back, Elbow & Every Angle
Accuracy : CL 1.0
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN13190 & other National/ International Standards



INERT GAS FILLED TEMPERATURE GAUGE

Dial Size : 100mm, 125mm & 150mm
Ranges : -100°C to 0...50°C to 650°C
Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm
Mounting : Bottom, Back, Every Angle and with mounting bracket accessories
Stem Mounting : With Capillary & without Capillary
Accuracy : CL 1.0
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN13190 & other National/International Standards



INERT GAS FILLED ELECTRIC CONTACT TEMPERATURE GAUGE

Dial Size : 100mm, 125mm & 150mm
Ranges : -100°C to 0...50°C to 650°C
Stem Sizes : 6.0mm, 6.35mm, 8.0mm, 9.5mm, 10mm & 12.0mm
Mounting : Bottom, Back, Every Angle and with mounting bracket accessories
Stem Mounting : With Capillary & without Capillary
Accuracy : CL 1.0
Dampening Liquid : Dry, Fillable & Filled
Standard Followed : EN13190 & other National/International Standards
Contact Type : Magnetic Snap Action & ATEX Inductive Contact
No. of Contacts : Single, Double & Triple Contacts for ON/OFF action

THERMOWELL



Construction : Barstock, Fabricated
Connection : Threaded, Flanged, Sanitary etc.
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum
Coatings : PTFE, Tungsten Carbide, Cermic, Tantalum Sleeve etc.

RTD / THERMOCOUPLE



RESISTANCE TEMPERATURE DETECTOR

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class A, Class B
- Element : Pt100, Pt500 & Pt1000
- Sheath : Mineral Insulated Cable
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX



THERMOCOUPLE

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class 1
- Element : J, K, T, E, N, R, S, U, B
- Sheath : Mineral Insulated Cable
- Sheath Material : SS 316, SS310, SS446, Inconel 600, Inconel 800
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX



RESISTANCE TEMPERATURE DETECTOR

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class A, Class B
- Element : Pt100, Pt500 & Pt1000
- Sheath : Mineral Insulated Cable
- Cold End Termination : PTFE, PTFE/PTFE/SS, OMEGA Connectors, Others as per requirement



THERMOCOUPLE

- Connection : Fixed, Adjustable, Nipple, N-U-N, Flanged & Threaded
- Accuracy : Class 1
- Element : J, K, T, E, N, R, S, U, B
- Sheath : Mineral Insulated Cable
- Sheath Material : SS 316, SS310, SS446, Inconel 600, Inconel 800
- Enclosure : Aluminium, SS with IP65, IP66, IP67, IP68, Ex-proof, Flameproof, ATEX
- Cold End Termination : PTFE, PTFE/PTFE/SS, OMEGA Connectors, Others as per requirement

LEVEL INDICATORS

MAGNETIC LEVEL INDICATOR



Easy Installation, External Mounting, Bi-color flag indicators, Optional point level switches, Optional transmitter output.

Process connection	: Threaded / Flanged
Center-to-Center distance	: 250 mm (Min.) up to 6000 mm (Max.)
Indicator length	: 250 mm (Min.) up to 6000 mm (Max.)
Chamber material	: AISI 316 SS/AISI 316L SS/Polypropylene
Mounting	: Side / Side or Tap

REFLEX / TRANSPARENT LEVEL GAUGE

Reflex / Transparent type glass indicator, High pressure & temperature, For clear liquid level indication.

Process connection	: Threaded / Flanged
Center-to-Center distance	: 350 mm (Min.) up to 6000 mm (Max.)
Visible length	: ± 50 mm to C-C distance
Body material	: ASTM A105 / AISI 304 SS / AISI 316 SS
Mounting	: Side / Side



TUBULAR LEVEL GAUGE

Easy Installation, External Mounting, Economical version.

Process connection	: Threaded / Flanged
Center-to-Center distance	: 250 mm (Min.) up to 1,500 mm (Max.)
Tubular glass	: Acrylic / Borosilicate glass
Glass protection	: Powder coated Carbon Steel channel box
Mounting	: Side / Side

FLOAT & BOARD LEVEL GAUGE

Easy Installation, Float and scale follower type

Process connection	: Flanged
Measuring range	: 3 up to 20 Meters
Float material & range	: AISI 316 SS / $\varnothing 200$ mm or $\varnothing 350$ mm
Indication	: Powder coated red CI pointer with Nylon rollers
Float / Guide wire ropes	: AISI 316 SS / AISI 304 SS ($\varnothing 1.6$ mm)



MAGNETIC LEVEL SWITCH



Type	: Miniature, Cable Float, Side Mounted, Top Mounted
Connection	: BSPP, NPT, Flanged etc.
Material	: PP, SS316 etc.

VALVE & MANIFOLDS

BALL VALVE

Material : SS304, SS316, SS316L etc.
Connection : BSPP, NPT etc.
Pressure rating : 1500 psi, 3000 psi, 6000 psi & 10000 psi



NEEDLE VALVE

Type : Isolation, Single Block & Bleed, Double Block & Bleed, Multiport
Connection : BSPP, NPT etc.
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum
Pressure : 6000 psi, 10000 psi & 15000 psi etc.



MANIFOLDS

Type : 2-WAY, 3-WAY, 4-WAY, 5-WAY, DISTRIBUTION
Connection : BSPP, NPT, Coplanar etc.
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum
Pressure : 6000 psi, 10000 psi & 15000 psi etc.



MONOFLANGE

Type : Single Block & Bleed, Double Block & Bleed
Connection : Flanged as ANSI, EN etc.
Material : Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum
Pressure rating : As per Flange size & rating



INSTRUMENTATION FITTINGS



Male
Connector



Cross



Elbow



Tee



Union

ACCESSORIES



GAUGE COCK

Type	: 2-Way or 3-Way
Material	: SS304, SS316, SS316L etc.
Connection	: BSPP, NPT etc.
Pressure Rating	: 100 bar

SIPHON

Type	: Coil, Pigtail(Q), U
Material	: SS304, SS316, SS316L etc.
Connection	: BSPP, NPT etc.
Pressure Rating	: According pipe size & schedule



GAUGE SAVER

Type	: Bellow, Piston
Range	: 0.6 bar to 400 bar
Material	: SS304, SS316, SS316L, Monel, Hastelloy 'C-276' etc.
Connection	: BSPP, NPT etc.
Pressure Rating	: 600 bar

PULSATION DAMPENER

Type	: Adjustable Screw
Material	: SS304, SS316, SS316L, Monel, Hastelloy 'C-276' etc.
Connection	: BSPP, NPT etc.
Pressure Rating	: 400 bar



FLUSHING RING

Material	: Alloy Steel, Stainless Steel, Duplex Steel, Nickel Alloys, Superalloys, Titanium, Tantalum, Hastelloy 'C-276'
Connection	: In-built with Seal, As per Flange Size & rating

COOLING TOWER

All SS construction 4 variable designs

Type	: Fin, Perforated, Capillary, Miniature fin
Material	: SS304, SS316, SS316L etc.
Maximum pressure	: 1000 bar
Maximum temp.	: 500°C



DIAPHRAGM SEAL

THREADED DIAPHRAGM SEAL



Forged chambers, rigid construction, laser welded diaphragm, optional exotic materials

Range type	: -1...0 bar & 0...700 bar
Wetted parts	: AISI 316L SS, Monel, Hastelloy C (others on request)
Sealing fluid	: Silicon DC 200 (-40...205°C) (others on request)
Protection on wetted parts	: Optional
Assembly	: Direct / Remote

FLANGED DIAPHRAGM SEAL

Forged chambers, rigid construction, laser welded diaphragm, optional exotic materials

Range type	: -1...0 bar & 0...700 bar
Wetted parts	: AISI 316L SS, Monel, Hastelloy C (others on request)
Sealing fluid	: Silicon DC 200 (-40...205°C) (others on request)
Protection on wetted parts	: Optional
Assembly	: Direct / Remote



SANITARY / PULP DIAPHRAGM SEAL



Forged chambers, rigid construction, laser welded diaphragm, optional exotic materials

Range type	: -1...0 bar & 0...40 bar
Wetted parts	: AISI 316L SS, Monel, Hastelloy C (others on request)
Sealing fluid	: Silicon DC 200 (-40...205°C) (others on request)
Protection on wetted parts	: Optional
Assembly	: Direct / Remote

DIAPHRAGM SEAL INTEGRATION

THREADED / FLANGED DIAPHRAGM SEAL

Forged chambers, rigid construction, laser welded diaphragm, optional exotic materials

Range type	: -1...0 bar & 0...700 bar
Wetted parts	: AISI 316L SS, Monel, Hastelloy C (others on request)
Sealing fluid	: Silicon DC 200 (-40...205°C) (others on request)
Protection on wetted parts	: Optional
Assembly	: Direct / Remote



SWITCHES



PRESSURE SWITCH (WEATHERPROOF / FLAMEPROOF)

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67, Internal set point lock, Rigid construction, Scale provided

Range	: 250 mmWC to 600 bar
Repeatability	: 1 % F.S.
Sensing Elements	: AISI 316 SS / Monel / Hastelloy 'C-276', Diaphragm
Switch	: 1 SPDT, 15A, 250 VAC / 2A, 24 VDC (Others on request)
Mounting	: Bottom / Panel
Enclosure Material	: Aluminum pressure die cast



DIFFERENTIAL PRESSURE SWITCH (WEATHERPROOF / FLAMEPROOF)

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67, Internal set point lock, Rigid construction, Scale provided

Range	: 250 mmWC to 60 bar
Repeatability	: 1 % F.S.
Sensing Elements	: AISI 316 SS / Monel / Hastelloy 'C-276', Diaphragm
Switch	: 1 SPDT, 15A, 250 VAC / 2A, 24 VDC (Others on request)
Mounting	: Bottom / Panel
Enclosure Material	: Aluminum pressure die cast

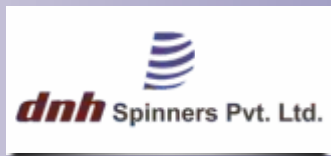


TEMPERATURE SWITCH (WEATHERPROOF / FLAMEPROOF)

Fix / adjustable differential, Field adjustable set point, Weatherproof to IP 67, Internal set point lock, Rigid construction, Scale provided

Range	: -50 to 650°C
Repeatability	: 1 % F.S.
Sensing Elements	: Inert Gas Filled
Switch	: 1 SPDT, 15A, 250 VAC / 2A, 24 VDC (Others on request)
Mounting	: Bottom / Panel
Enclosure Material	: Aluminum pressure die cast

PARTNERS IN GROWTH



CONTACT US

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