









PPC Process Gauge

The PPC is a durable gauge with a phenolic solid front and pressure relief back safety case. Use the PPC in situations where user safety is a must such as in the presence of contaminated media

Dial Size	4.5"
Case	Black phenolic with pressure relief back, solid front, integral back flange
Accuracy	±0.5% ANSI/ASME Grade 2A
Range	Vac to 20,000 psi
Connection	1/4" or 1/2" NPT bottom or back, brass* or SS



PPC-ZR StabiliZR® Process Gauge

The PPC-ZR StabiliZR® gauge dampens movement and minimizes the effects of pulsation and vibration without liquid filling. Ideal for processes where chemical compatibility and vibration are a concern

Dial Size	4.5"
Case	Black phenolic with pressure relief back, solid front, integral back flange
Accuracy	±0.5% ANSI/ASME Grade 2A
Range	Vac to 20,000 psi
Connection	1/4" or 1/2" NPT bottom or back, brass* or SS



PFP Premium Stainless Steel Liquid Filled Gauge

This gauge features a pulsation resistant, liquid filled stainless steel case with either brass or stainless steel internals. Ideal for use outdoors or in severe ambient and process conditions

Dial Size	2.5", 4", 4.5" or 6", panel mount
Case	AISI 304 SS
Accuracy	2.5": ±1.5%, 4", 4.5", 6": ±1% ANSI/ASME Grade 1A
Range	Vac to 40,000 psi
Connection	1/4" or 1/2" NPT bottom, centre and lower back, 1/2" BSP(G) or 9/16" autoclavable, brass* or SS



PFP-ZR Premium Stainless Steel StabiliZR® Gauge

PFP-ZR utilizes a precision designed dampening mechanism to minimize the effects of pulsation and vibration. The gauge is suited for applications where corrosiveness and pulsation are a concern

Dial Size	2.5", 4" or 6"
Case	AISI 304 SS
Accuracy	2.5": ±1.5% of full scale, 4" and 6": ±1% ANSI/ASME Grade 1A
Range	Vac to 20,000 psi
Connection	2.5": 1/4" NPT, 4" and 6": 1/4" or 1/2" NPT, SS



PFQ Stainless Steel Liquid Filled Gauge

PFQ is a durable stainless steel gauge that can withstand pulsation and vibration, making it an ideal choice for pumps, compressors and motors operating in harsh environments

Dial Size	1.5", 2", 2.5" or 4"
Case	AISI 304 SS
Accuracy	1.5" and 2": ±2.5% of full scale, 2.5" and 4": ±1.5% of full scale
Range	Vac to 15,000 psi
Connection	1/8", 1/4" and 1/2" NPT bottom or back or 7/16"-20 SAE bottom, brass*, lead free brass* or SS





PFQ-ZR StabiliZR® Stainless Steel Gauge

PFQ-ZR's dry StabiliZR® dampening can withstand pulsation and vibration, making it an ideal choice for pumps, compressors and motors operating in harsh environments

Dial Size	2.5" or 4"
Case	304 SS
Accuracy	±1.5% of full scale
Range	Vac to 15,000 psi
Connection	1/4" and 1/2" NPT bottom or back, brass*



PSC Safety Case Gauge

Winters' PSC Safety Case gauge is constructed of a solid front and blowout back for the ultimate in gauge safety. PSC has full rotary movement and micrometer pointer for ease of calibration

Connection	1/4" or 1/2" NPT bottom or back, SS
Range	Vac to 20,000 psi
Accuracy	2.5": ±1.5%, 4" and 6": ±1% ANSI/ASME Grade 1A, 4.5": ±0.5% ANSI/ASME Grade 2A
Case	304 SS with blowout back
Dial Size	2.5", 4", 4.5" or 6"



PLP Low Pressure Gauge

PLP provides a highly accurate reading of low pressure corrosive and non-corrosive gaseous media. It is used to measure natural gas pressure as well as air flow indication and leak detection

Dial Size	2.5", 4", 4.5" or 6"
Case	AISI 304 SS, aluminum (black), steel (black) or cast aluminum (black)
Accuracy	SS: ±1.6% of full scale, brass*: ±3-2-3% ANSI/ASME Grade B
Range	0 to 10 psi
Connection	1/4" NPT bottom or back, brass* or SS



PDT Differential Gauge

This gauge uses brass or stainless steel wetted parts and is available with conventional or balanced scales. The PDT is typically used to measure pressure drops across filters, pumps or other equipment

Dial Size	4.5" or 6"
Case	Aluminum, painted black
Accuracy	±1% ANSI/ASME Grade 1A
Range	0 to 600 psi
Connection	1/4" NPT bottom or back, brass* or SS



PDX Duplex Gauge

The PDX is a heavy duty, highly accurate gauge that uses two separate bourdon tubes and pointers to compare two separate process pressures at the same time

Dial Size	4.5" or 6"
Case	Aluminum, painted black
Accuracy	±1% ANSI/ASME Grade 1A
Range	0 to 600 psi
Connection	1/4" NPT bottom or back, brass* or SS





2WPS General Purpose Pressure Switch

The 2WPS has a NEMA 4, IP65 enclosure rating with the option of a NEMA 4X rating. It is typically utilized for pump and compressor monitoring and general industrial applications

Housing	Anodized aluminum
Wetted Parts	Aluminum and Buna-N (PTFE O-ring or FKM diaphragm optional)
Range	Vac to 500 psi
No. of Contacts	One, SPDT
Accuracy	±2% of the adjustable range



9WPS Explosion Proof Compact Pressure Switch

Designed for hazardous locations where an explosion proof switch is required

Housing	316 SS
Wetted Parts	Vacuum and low pressure – seals: FKM diaphragm High pressure – piston: SS with PTFE backup ring and FKM o-ring
Range	Vac - 10,000 psi
No. of Contacts	1 x SPDT, DPDT (2 x SPDT, DPDT optional)
Accuracy	±2% of full scale



LE3 General Purpose Transmitter

Suitable for all process and automation control, hydraulics and pneumatic sensing, pump and compressor monitoring, refrigeration and HVAC

•	
Output Signal	Standard 2-wire: $4-20$ mA / Vs = $8-32$ Vdc (CSA) Optional 3-wire: $0-10$ V / Vs = $14-30$ Vdc Optional 3-wire ratiometric: Vsig = $0.5-4.5$ Vs / Vs = 5 ± 0.5 Vdc
Range	Vac to 5,000 psi
Accuracy	±0.5% FSO
Wetted Parts	304 SS port with Ceramic sensor
Allowable Temperatures	Medium: -13°F to 257°F (-25°C to 125°C) Storage: -40°F to 185°F (-40°C to 85°C) Electronics environment: -13°F to 185°F (-25°C to 85°C)



LIS Intrinsically Safe Transmitter

Appropriate for all hazardous areas where an intrinsically safe rating is required, including oil & gas and chemical installations

Output Signal	Standard 2-wire: 4-20 mA / Vs = 8-32 Vdc I.S. protection: Vs = 14-28 Vdc Optional 3-wire: 0-20 mA / Vs = 14-30 Vdc 0-10 V / Vs = 14-30 Vdc
Range	Vac to 8,700 psi
Accuracy	±0.5% FSO IEC 60770
Wetted Parts	304 SS port with Ceramic sensor
Allowable Temperatures	Medium: -40°F to 257°F (-40°C to 125°C) Electronics environment: -13°F to 185°F (-25°C to 85°C) Storage: -40°F to 212°F (-40°C to 100°C)



LXP Explosion Proof Transmitter

Suitable for a variety of hazardous applications where the added security of an explosion proof enclosure is required

Output Signal	Standard 2-wire: 4-20 mA / Vs = 12-28 Vdc Optional 3-wire: 0.5-5.5 Vdc / Vs = 9-28 Vdc 3-wire: 1-11 Vdc / Vs = 14-28 Vdc Note: Other output signals available
Range	Vac to 10,000 psi
Accuracy	±0.25% BFSL / ±0.5% for vacuum only
Wetted Parts	304 SS port with welded sensor
Allowable Temperatures	Operating: -40°F to 160°F (-40°C to 71°C) Compensating: 30°F to 160°F (-1°C to 71°C) Storage: -40°F to 185°F (-40°C to 85°C)





WinSMART™ LY16 Pressure Transmitter

LY16 is a high-powered smart transmitter with hazardous approvals and broad accuracy classes, able to handle all pressure measurement requirements

Output	4/20mA, 1/5VDC, Modbus RS485, HART®
Housing	Die-cast aluminum, painted blue
Accuracy	0.2%, 0.5%, 0.1%, 0.075%, 0.05%
Range	-14.5 psi up to 14,500 psi
Sensor	316 SS



WinSMART™ LY36 Differential Pressure Transmitter

LY36 smart differential pressure transmitter can handle low and high pressure requirements and is equipped with hazardous approvals. Differential pressure transmitters measure pressure drops across orifices and can also monitor flow and level

Output	4/20mA, 1/5VDC, Modbus RS485, HART®
Housing	Die-cast aluminum, painted blue
Accuracy	0.05%, 0.075%
Range	-24"H ₂ O up to 1,450 psi
Sensor	316 SS



WinSMART™ TY52 Temperature Transmitter

Equipped with a PT100 RTD, TY52 can handle many different smart temperature reading applications from hazardous to general purpose areas

Output	4/20mA, 1/5VDC, Modbus RS485, HART®
Housing	Die-cast aluminum, painted blue
Accuracy	0.5%
Range	-50 up to 400°C / -58 up to 752°F
Stem	316 SS



TER Industrial RTD

RTDs highly accuracy and dependable temperature sensors used in a variety of industrial applications. Areas include refineries, petrochemical plants and gas-to-liquid processes

Head	Aluminum (standard) or stainless steel
Element	TER: Platinum 100 Ohm Class A as per IEC751
Accuracy	TER: ±0.5°C at 0°C
Range	-328°F to 2,192°F (-200°C to 1,200°C)
Connection	Process: 1/2" NPT (3/4" NPT with well) male, Conduit: 1/2" NPT female



TET Industrial Thermocouple

Thermocouples are electronic temperature sensors capable of measuring high temperatures. Areas include storage tanks, power plants, paper mills and food & beverage processes

Head	Aluminum (standard) or stainless steel
Element	TET: Type J & K standard
Accuracy	TET: ±0.4% Class 1
Range	-328°F to 2,192°F (-200°C to 1,200°C)
Connection	Process: 1/2" NPT (3/4" NPT with well) male, Conduit: 1/2" NPT female





SOP Overpressure Protector

SOP utilizes an external adjusting screw to automatically shut off pressure to an instrument once the adjustable pressure is exceeded. This overpressure protector is available in Bellows and piston types

0	Body	316 SS with or without NACE
	Burst	10,000 psi/kPa
	Temperature	-40°F to 248°F (-40°C to 120°C)
	Connection	1/4" NPTM x 1/4" NPTF or 1/2" NPTM x 1/2" NPTF



NVA Needle Valve (Straight Body, Hard Seat)

The one-piece body construction provides strength and safety while the slow opening handle prevents sudden pressure surge. The hard seat provides durability against high flow/velocity and corrosive media

Body	Carbon steel, carbon steel NACE tip, stainless steel or stainless steel NACE
Connections	1/4", 3/8", 1/2", 3/4" or 1" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) or 10,000 psi (68,947 kPa)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Gland Packing	PTFE/Graphite (Graphite used for high temperature applications)
Screw	304 SS



BBV Block & Bleed Valve Two Handles

The two handle block & bleed valve allows controlled media bleed off without disturbing the permanent piping installation, allowing safe and easy removal or replacement of instruments

Body	Carbon steel, stainless steel or stainless steel NACE
Connections	1/4", 1/2" or 3/4" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) (soft seat) or 10,000 psi (68,947 kPa) (hard seat)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Stem O-rings	FKM



D44 Flanged Diaphragm Seal

D44 series two-piece flanged diaphragm seal is available in a variety of sizes and housing materials. A backing plate prevents the diaphragm from rupturing if the pressure sensing instrument fails

Upper Housing	Nickel plated carbon steel, 316 SS
Lower Housing	316 SS, Hastelloy [®] B & C, Monel [®] , PTFE, other
Diaphragm	PTFE for increased compatibility, sensitivity and versatility
Min/Max Pres.	0-2,500 psi
Connection	1/4" or 1/2" NPTF
Process Flange	1", 1.5" or 2" and #150 or #300 pressure rating



D70 Diaphragm Seal

The D70 is found in applications where process fluids are corrosive or viscous and could damage instrumentation. An optional flushing connection is available to prevent clogging of the seal

Housing	316L SS, Monel®, Hastelloy® C
Diaphragm	316L SS, Monel®, Hastelloy® C, FKM
Min. Pressure	30 psi
Max. Pressure	2,500 psi
Connection	1/4", 1/2", 3/4" and 1" NPT bottom, 1/4" and 1/2" top





TBM Bi-Metal Thermometer

This industrial grade thermometer uses a bi-metallic sensing element for reliable temperature readings. All models are hermetically sealed and fully moisture and water proof

Dial Size	1" to 6"
Case	AISI 304 SS
Accuracy	±1% of full scale
Range	-100°F to 1,000°F (-70°C to 550°C)
Connection	1/4" or 1/2" NPT bottom, back or adjustable angle



TRR Remote Reading Thermometer

TRRs are heavy duty gas or vapour filled thermometers for remote reading installations. This product is available for immediate delivery off-the-shelf and non-standard configurations are made-to-order

Dial Size	2.5", 3.5", 4", 4.5", 6" or 8.5"
Case	2.5": 316 SS, 3.5" and 4": steel painted black, others are aluminum painted black
Accuracy	Gas ±1% of full scale value, Vapour ±2% of full scale value
Range	-40°F to 1,000°F (-40°C to 537°C)
Connection	1/2" bulb diameter, brass* or SS



TBR Bi-Metal Threaded Thermowell

The TBR is standard in a "stepped construction" and available in a variety of custom configurations. Use to protect TBM thermometers from media or to allow for maintenance without shutting down a system

Material	Brass*, AISI 304 SS, AISI 316 SS, other materials available upon request
Bore	.260" standard
Length	2.5", 4", 6", 9",12" or 15"
Process Connect.	3/4", 1/2" or 1" standard, other thread sizes available upon request
Therm. Connect.	1/2" NPT female, other thread sizes available upon request



TWF Flanged Bi-Metal Thermowell

The TWF thermowell is designed for use on a closed system. It is used to protect thermometers from process media and to allow for thermometer replacement without requiring shut-down of the system

Material	304 SS or 316 SS
Bore	.260"
Length	4", 6", 9", 12" or 15"
Process Connect.	1", 1.5" or 2" flange
Therm. Connect.	1/2" NPT female



TWW Weld-in Threaded Thermowell

Where high pressure or high flow of media is present (i.e. pipes)

Material	304 or 316 SS
Bore	0.260" (6.5mm) standard
Therm. Connect.	1/2" NPT
Other	1.5" connection pipe size standard

* WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WINTERS INSTRUMENTS MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



Winters Instruments is a global manufacturer of premium quality pressure and temperature instrumentation, with distribution partners in over 90 countries. Please contact us for your nearest Regional Manager.

Corporate - Canada

Winters Instruments 121 Railside Road Toronto, Ontario M3A 1B2 Tel: 416-444-2345 1-800-WINTERS Fax: 416-444-8979 sales@winters.com

Asia - Shanghai

Winters Instruments Shanghai WitHub Hi-Tech Business Center Suite 308 No. 333 Hongqiao Road Shanghai 200030 China Tel: 86-21-6104-2610 Fax: 86-21-6104-2615 asiasales@winters.com www.wintersasia.com

Canada - Calgary

Winters Instruments 3125-16 Street NE Calgary, Alberta T2E 7K8 Tel: 403-723-6645 1-800-WINTERS Fax: 403-723-6647 calgary@winters.com

Latin America

Winters Instruments Lamadrid 121 Los Troncos del Talar, B1608CEC Buenos Aires, Argentina Tel: 54-11-4715-3036 latinsales@winters.com www.winters.com.ar

USA - Houston

Winters Instruments 5400 W. Sam Houston Pkwy N. Houston, Texas 77041 Tel: 281-880-8607 1-800-WINTERS Fax: 281-880-8614 usasales@winters.com

United Kingdom - Northampton

Winters Instruments
Unit, 4B Kingsfield CI,
Northampton,
NN5 7QS
Tel: 44-0-1604-434826
emeasales@winters.com
www.winters.com

USA - Buffalo

Winters Instruments
Airport Commerce Park
455 Cayuga Rd., Suite 650
Buffalo, New York
14225
Tel: 716-874-8700
1-800-WINTERS
Fax: 716-874-8800
usasales@winters.com

Europe - Middle East - Africa

Winters Instruments

Dubai Airport Free Zone 6WB G50 Dubai, United Arab Emirates Tel: 971-4295-9177 Fax: 971-4295-9177 emeasales@winters.com



Distributed by: