

WINTERS



We're There.



ELECTRONICS

WPS Commercial Differential Pressure Switch

Excellent solution in BAS and HVAC applications requiring monitoring and control



Housing	Grey colour Polyamide 6.6 plastic
Wetted Parts	Silicone based diaphragm, tempered at 392oF (200oC)
Range	0.08 to 16 "H ₂ O
No. of Contacts	Single-pole double-throw (SPDT)
Accuracy	+/- 15% of upper and lower pressure ratings

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

4WPS Low Pressure Diaphragm Pressure Switch

4WPS has simple single or dual set point adjustment. With ±0.5% accuracy it's ideal for more sensitive industrial applications.



Housing	Anodized aluminum
Wetted Parts	304 SS process connection and 17-PH SS diaphragm
Range	"H ₂ O to 150 psi
No. of Contacts	One or two SPDT (hermetically sealed option for 1 x SPDT only)
Accuracy	±0.5% of the adjustable range

5WPS Differential Pressure Switch

Ideal for High-Low differential & level control (requiring dual elements) in pumping stations and filtration equipment



Housing Material	Cast aluminum
Range	15 psi to 5,000 psi
Accuracy	±0.5% of range (for one SPDT switch)
No. of Contacts	1 x SPDT (2 x SPDT optional)
Wetted Parts	SS

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



DPG Digital Pressure Gauge

Ideal for commercial and industrial applications in both test measurement and general purpose installations

Dial	2.5" (63mm)
Range	Vac-0-15,000 psi
Socket & Diaphragm	316 SS, welded
Connection	1/4" NPT
LCD Display	2" x 3/4" (48mm x 16mm)



LE1 OEM Transmitter

Suitable for a variety of applications including pump and compressor monitoring, refrigeration and HVAC

Output Signal	Standard 2-wire: 4-20 mA / Vs = 12-30 Vdc Optional 3-wire: 0.5-4.5 Vdc / Vs = 10-30 Vdc
Range	Vac to 8,700 psi
Accuracy	±0.5% FSO (±1% FSO for pressures ≤45 psi (3 x bar))
Wetted Parts	304 SS port with Ceramic sensor
Allowable Temperatures	Operating: -40°F to 212°F (-40°C to 100°C) Compensating: 14°F to 176°F (-10°C to 80°C)



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)



LLP Low Pressure Transmitter

Developed for low pressure applications in general industry and OEM applications

Output Signal	Standard 2-wire: 4-20 mA / Vs = 8-32 Vdc Optional 3-wire: 0-10 V / Vs = 14-30 Vdc Optional 3-wire ratiometric: Vsig = 0.5-4.5 V / Vs = 5 ± 0.5 Vdc
Range	1.5 psi to 25 psi
Accuracy	±0.5% FSO
Wetted Parts	304 SS port with Ceramic sensor
Allowable Temperatures	Medium: -13°F to 185°F (-25°C to 85°C) Storage: -40°F to 185°F (-40°C to 85°C) Electronics environment: -13°F to 185°F (-25°C to 85°C)



LMH Hydraulic Transmitter

Suitable for heavy duty process and automation control including mobile hydraulics and presses

Output Signal	Standard 2-wire: 4-20 mA / Vs = 8-32 Vdc 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	100 psi to 8,700 psi
Accuracy	±0.5% FSO
Wetted Parts	304 SS port with SS welded sensor
Allowable Temperatures	Medium: -40°F to 257°F (-40°C to 125°C) Electronics environment: -40°F to 185°F (-40°C to 85°C) Storage: -40°F to 185°F (-40°C to 85°C)



LIS Intrinsic 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)



LM1 Anti-Clogging Submersible Transmitter

Manufactured for level measurement in sludge and slurry installations including lifting stations

Output Signal	Standard 2-wire: 4-20 mA / Vs = 10-36 Vdc Optional 3-wire: 0-5 V / Vs = 10-36 Vdc 3-wire: 0-10 V / Vs = 10-36 Vdc
Range	2 psi to 50 psi
Accuracy	Standard: ±0.25% FSO Optional: ±0.5% FSO
Sensor	316L and welded
Allowable Temperatures	Operating: -40°F to 185°F (-40°C to 85°C)



LM6 All Stainless Steel Submersible Transmitter

Typical installations include ground or tank level monitoring of water and sewage treatment measurement

Output Signal	Standard 2-wire: 4-20 mA / Vs = 8-32 Vdc Optional 3-wire: 0-20 mA / Vs = 14-30 Vdc 0-10 V / Vs = 14-30 Vdc
Range	50' H ₂ O to 300 psi
Accuracy	±0.35% FSO
Sensor	316L
Allowable Temperatures	Medium: 14°F to 158°F (-10°C to 70°C) Storage: -13°F to 158°F (-25°C to 70°C)



LST 3A Sanitary Transmitter

The LST is a 316-grade welded stainless steel, NEMA 4X rated transmitter. This 3A approved transmitter is ideal for food processing and pharmaceutical applications where sanitary conditions are a high priority.

Output	4-20mA, 2-wire
Housing	316 SS
Accuracy	±0.25% ANSI/ASME Grade 3A
Range	0 to 1,000 psi
Wetted Parts	316L SS



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



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

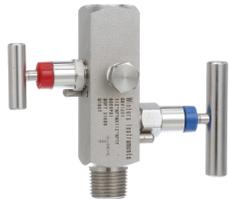
Body	Carbon steel, carbon steel NACE tip, stainless steel or stainless steel NACE
Connections	1/4", 3/8", 1/2", 3/4" or 1" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) or 10,000 psi (68,947 kPa)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Gland Packing	PTFE/Graphite (Graphite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



BBV Block & Bleed Valve Single Handle

The block & bleed design allows media to be bled off without disturbing the permanent piping installation, allowing safe and easy removal or replacement of instruments

Body	Carbon steel or stainless steel
Connections	1/4" or 1/2" 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
Stem O-ring	FKM
Approvals	CRN registered, burst pressure safety tested at 4 times valve rating



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

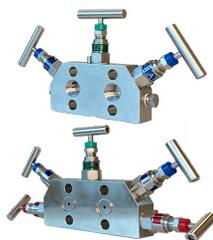
Body	Carbon steel, stainless steel or stainless steel NACE
Connections	1/4", 1/2" or 3/4" NPTM x NPTF or NPTF x NPTF
Pressure	6,000 psi (41,368 kPa) (soft seat) or 10,000 psi (68,947 kPa) (hard seat)
Needle/Needle Tip	Stainless steel or stainless steel NACE
Stem O-rings	FKM



BBV Double Block & Bleed Valve

The double block & bleed valve offers redundant closure for critical applications and controlled media bleed off, enabling instruments to be removed without disturbing the permanent piping installation

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



MVA 3 & 5 Handle Manifold

Manifold valves are designed to be perfectly installed with Winters LY36 Series differential transmitter and are critical in process and industrial environments for the enabling of shut-downs for the testing, repair and upgrading of instruments

Body	Stainless Steel
Connections	1/2" NPTF x 1/2" NPTF
Pressure	6,000 psi (41,368 kPa) (hard seat)
Needle / Needle Tip	Stainless Steel
Stem O-rings	PTFE/Graphite (Graphite is used for high temperature applications)



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



D81 Isolation Ring

D81 is an in-line diaphragm seal that is available in a variety of configurations to fit specific applications. The wafer style isolation ring makes the D81 ideal for measuring the pressure of viscous or solid media

Housing	Carbon Steel, 316 SS, Acetal, others available
Diaphragm	EPDM, Neoprene, Nitrile or Hypalon®
Min. Pressure	Vacuum
Max. Pressure	1,000 psi
Connection	1/4" and 1/2" NPTF gauge ports, 1"-42" pipe sizes



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



TSN Sanitary Thermowell

Installing a TSN allows for easy installation and replacement of bi-metallic thermometers without draining the process. It is 3A approved and specifically designed for the sanitary industry

Material	316 SS
Bore	.260" standard
Length	2.5", 4", 6" or 9"
Process Connect.	1.5" or 2" Tri-Clamp®
Therm. Connect.	1/2" NPT female



*  **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



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