Data Sheet

2030 Series Digital Sanitary Pressure Gauge

FEATURES

- Multi-Functional digital pressure gauge with 4-20 mA output 1 or 2 SPDT Switches (OPT.)
- Large LCD display
- ±0.25% of span terminal point accuracy
- IP65 Weatherproof case
- Material Traceability Certification to EN 10204: 2004 3.1 (Excludes 2036 Series)

TYPICAL USES

- Specialized OEM equipment
- Filtration
- Food and dairy
- Pharmaceutical
- Biotech
- Medical equipment

SPECIFICATIONS

Model:	2032: 2132: 2232: 2036: 2136: 2236:	Conventional Tri-Clamp [®] : Battery Conventional Tri-Clamp [®] : 4-20 mA loop powered Conventional Tri-Clamp [®] : 12-36 Vdc line powered In-line Tri-Clamp [®] : Battery In-line Tri-Clamp [®] : 4-20 mA loop powered In-line Tri-Clamp [®] : 12-36 Vdc line powered			
Accuracy:		$\pm 0.25\%$ of span, terminal point (ASME B40.7)			
Ranges:		Vacuum, Compound to 1000 psi (food grade mineral oil fill is required for vacuum and copound ranges)			
Proof Pressure:		200% of full scale			
Dial Size:		3" (optional front flange for panel mount)			
Process Conner	ction:	2032, 2132, 2232: ¾ Tri-Clamp [®] (± 0.5% positive pressure only, min range 100 psi), 1½ Tri-Clamp [®] or 2″ Tri-Clamp [®] 2036, 2136, 2336: 1½ In-line compatible with model 1037 in-line tee fitting			
Process Conn. L	ocation:	Lower, Top, 9 o'clock or 3 o'clock			
Fill:		Glycerine, Food Grade Silicone (OPT.), Food Grade Mineral Oil (OPT.) or Silicone (OPT.)			
Mounting:		Direct, Remote (OPT.)			
Wiring:		3 ft shielded cable standard. Optional custom length cable up to 100ft			
Front Cover:		3" Protective cover (OPT.)			
Seal Surface Fi	nish:	12-20 Ra			
223X Options:		1 or 2 SPDT reed relay, rated 1 Amp at 30 Vdc, 0.5 Amp at 125 Vac 4-20 mA output			
Enclosure Ratir	ng:	Weatherproof, IP65 ⁽¹⁾			
Remote Mount	Sensor:	3 ft shielded cable standard. Optional custom length cable up to 25 ft ($1\frac{12}{2}$ and 2^{2} connection only).			



KEY BENEFITS

- Replaces up to 3 instruments, local pressure indicator, 4-20 mA loop transmitter, pressure switch with one instrument
- Save cost and pipe cut outs
- Available with convential or in-line style Tri-Clamp[®] fittings

DISPLAY						
Display:	Full 5 Digital LCD					
Bar Graph:	Allows for adjustment of bar graph & 4-20 mA, 10 segment (0PT.)					
Battery Life:	400 hours, batterly life indicator					
Backlight:	Optional, models 2132 and 3136 require battery backup option to power backlight					
Character Height:	0.60″					
WETTED COMPON	NENTS					
Diaphragm	Seal Housing	Joints				
316L SS electopolished	316L SS	Welded				

NON-WETTED COMPONENTS

Case

304 SS, Electropolished/Tumbled								
MIN/MAX TEMPERATURE LIMITS								
Ambient Process Storage								
-14 °F to 140 °F ⁽¹⁾ (-10 °C to 60 °C)	-14 °F to 275 °F ⁽²⁾ (-10 °C to 135 °C)	-4 °F to 158 °F (-20 °C to 70 °C)						

The model 2X3X gauge is not suitable for an autoclave or powerwash.
Re-zero gauge frequently when exposed to elevated temperature and use.

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TEMPERATURE ERROR

 $\pm 0.04\%$ of span/degree F, above or below 70 °F reference temp. (Span and Zero shift can be corrected by zeroing the gauge at operating temperatures withing stated process temperature limits)

MENU MODE

Configuration Mode:	Allows for changes to default settings of gauge including password, zero disable, recalibration, restore factory defaults			
Engineering Units:	Allows scrolling through menu to select available options 10 units of measurement are available psi, in. H_2O with 3 temp. (OPT.): (20 °C), 60 °F, (4 °C), mm Hg, ft H_2O , mPa, kPa, kg/cm ² and bar			
Auto Off (Off):	Allows for changes to auto off of gauge 5 Options: 30 Min., 10 Min., 5 Min. or Never			
Update Rate (Update):	100 ms, 1 sec, 500 ms or 200 ms			
Dampening (Damp):	None, Average, 8, 6, 4 or 2 times per 100 ms			
Zero Disable:	Zero "lockout" feature			
Field Recalibration:	Zero, Span & Midscale (password protected)			
Calibration:	Allows for recalibration of zero & span			
KEYPAD FUNCTIO	DNS			
On/Off:	Manually turns unit On & Off (auto off options in menu)			
Zero/Clear:	Zeros Display or Clears Min./Max. Values when displayed			
Min./Max. Arrow Key:	Stores Min./Max. Values, Arrow Key allows for scrolling thru Menu items			
Menu:	Allows for changes to default settings			
Enter:	Selects items in the menu			
Switch Setpoint:	Program and switch setpoints			

AGENCY APPROVALS

3A Sanitary

Material Traceability Certification to EN 10204: 2004 3.1 standard ASME B40.7

OPTION "JZ" CUSTOM CABLE LENGTH

Allows the user to specify a custom cable length for the gauge as well as the cable length between the remote seal and gauge display. Gauge models 2X3X with remote mounted seal assembly (XRE) bothgauge and cable length and remote seal cable length may br specified. Maximum cable length for XRE seal is 25 feet. Maximum gauge power cable length 100 feet. EXAMPLE - XJZ Gauge cable length = 15° Seal cable length = 10°

STANDARD PRESSURE RANGES - Range abbreviations for part code shown below in () in txt boxes										
(#) PSI	(IMM) in. Hg (vacuum)	(#&V) Comp. (psi)	(MM) mm Hg (pressure)	(IM) in. Hg (pressure)	(IW) in. H₂O	(MBR) mBar	(FW) ft H₂O	(MP) mPa	(KP) kPa	(BR) or (KSC) Bar/KSC
15	30	-15/0/15	800	30	400	1000	60	1	100	1
30		-15/0/30	1000	60	800	1500	160	1.6	160	1.6
60		-15/0/60	2000	100	1000	2000	200	2.5	250	2.5
100		-15/0/100	3000	160		2500	300	4	400	4
160			5000	200		4000	400	6	600	6
200			10,000	300		5000	600	10	1000	10
300				400		6000	1000	16	1600	16
600				600		10.000		25	2500	25
800				800		15,000		40	4000	40
1000						20,000		60	6000	60

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2030 Series Digital Sanitary Pressure Gauge

ORDERING CODE	Example:	30	2032	S	D	20	L	1000#	-XBI
		•••	2002	U	2	20	-	10001	ADE
Dial Size 30 - 3.0"									
		30							
Model (Accuracy)			0000						
2032 - Battery power			2032						
2132 - 4-20 mA loop powered									
2232 - 12-36 Vdc									
2036 - Battery power (11/2" Inline Tri-Clamp [®] conn. only)									
2136 - 4-20 mA Loop (11/2" Inline Tri-Clamp [®] conn. only)									
2236 - 12-36 Vdc (11/2" Inline Tri-Clamp® conn. only)									
Standard				0					
S - 316L Stainless steel				S					
Case						-			
D - Dry					D	_			
Seal Size Process Connection									
Seal Size (2-32)									
75 - ¾" Tri-Clamp® (Positive pressure only, minimum ran	ige 100 psi)								
15 - 1½" Tri-Clamp®									
20 - 2" Tri-Clamp®						20			
Seal Size (2-36)									
15 - 1½" Inline									
Process Connection Location									
L - Lower							L		
E - 9 o'clock									
D - 3 o'clock									
Т - Тор								-	
Pressure Range (see range table for standard range	s)							-	
Vacuum (required option MY food grade mineral oil fill)									
0#V - 0 -15 psi vacuum									
Compound									
15#&V - Vac. to 15 psi (required option MY food grade)	mineral oil fill)								
30#&V - Vac. to 30 psi (required option MY food grade									
Gauge									
15# - 0 to 15 psi									
30# - 0 to 30 psi									
60# - 0 to 60 psi									
100# - 0 to 100 psi									
160# - 0 to 160 psi									
200# - 0 to 200 psi									
300# - 0 to 300 psi									
500# - 0 to 500 psi									
600# - 0 to 600 psi									
800# - 0 to 800 psi									
1000# - 0 to 1,000 psi								1000#	
Options (if choosing an option(s) must include an "X	(11)							1000#	-X
AO - 4-20 mA output for line power gauges with switch	· · · · · · · · · · · · · · · · · · ·								
· · · · · · · · · · · · · · · ·									
BK - Battery back-up BL - Backlight (models 2132 and 2136 also requires op	tion PK to power light)								BL
CK - Silicone fill fluid	blott BR to power light)								
CZ - Food grade silicone fill fluid									
FF - Flange for panel mounting									
HN - Mini Hirschmann [®] connector includes mating con									
JZ - Custom cable length customer must specify cable	length in special instruction	ons							
MF - Free from mercury certificate									
MN - Mylar® tag bonded to case									
MY - Food grade mineral oil (required for Compound ar	na vacuum ranges) fill fluid		_						
NH - Metal tag wired to case						_			
NN - Paper tag bonded to case						_			
PP - Protective front cover									
RE - Remote mount seal & sensor (3' shielded cable sta	7. (tion only)							
CD-1 - Certificate of conformance to specs. and/or dra	wings								
C4 - Traceable calibration certificate									
U1 - (1) SPDT Switch (line power gauges only, shielded	cable standard)								
U2 - (2) SPDT Switch (line power gauges only, shielded									
6B - Cleaned for oxygen service									
Note 1. Use option "AO" only if also selecting option U	1 or U2 switch output. If or	nly 4-20 m	A output i	s required	d, select	model 21	3X		

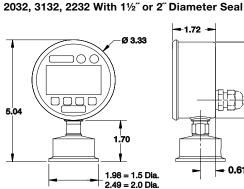
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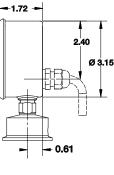
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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings





Ø3.15

2.40

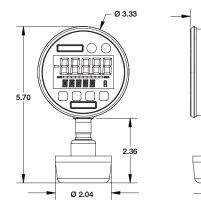
3' Shielded Cable For XPWR or Loop.

Ø 3.15

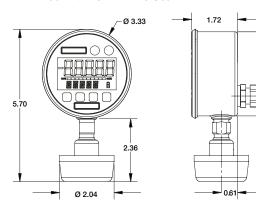
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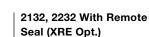
0.61

2036 With 11/2" In-Line Seal



2136 With 11/2" In-Line Seal





2136, 2236 With Remote Seal

3' Shielded

Cable Line

Power

3' Shielded Cable With

1.992 0.67

a1 506

ø1.936

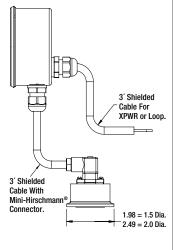
Mini-Hirschman® Connector

PWR or Loop

In-Line Seal (XRE Opt.)

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ASHCROF

1037 Instrument Fittings

1037 SPECIFICATIONS

- Type 1037 Fitting
- Pipe O.D. sizes from 1/2" thru 2"
- 316L Stainless steel

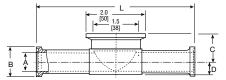
HOW TO ORDER

- Electropolished 12-20RA internal surface finish
- Heat number of wetted materials stamped on each fitting
- Actual material cerficates and certificate of conformance supplied as standard to EN 10204:2004 3.1

Models 2X36 with in line seal are compatible with Type 1037 in line tee fittings as specified below.

Size	Product Code	Part Number To Order
1⁄2″	50 1037	292C139-01
3⁄4″	75 1037	292C139-02
1″	10 1037	292C139-03
1½″	15 1037	292C139-04
2″	20 1037	292C139-05

DIMENSIONS in [] are millimeters



Pipe Size	А	вС		D	L	
1⁄2	0.38	0.98	0.87	0.31	5.25	
	[9.6]	[24.9]	[22]	[7.9]	[133.4]	
3⁄4	0.63	0.98	1.00	0.43	5.25	
	[15.9]	[24.9]	[25]	[10.9]	[133.4]	
1	0.87	1.98	1.13	0.55	4.75	
	[22.1]	[50.4]	[28.7]	[14.1]	[120.7]	
1½	1.37 [34.7]	1.98 [50.4]			5.50 [139.7]	
2	1.86	2.51	1.13	1.06	7	
	[47.2]	[62.8]	[28.7]	[26.9]	[177.8]	

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