### **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

SPECIFICATIO	ONS				
	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:		±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 Connectio	n:	2032, 2132, 2232: ¾"Tri-Clamp® (±0.5% of span), 1½"Tri-Clamp® or 2"Tri-Clamp® 2036, 2136, 2336: 1½" In-line compatible with model 1037 in-line tee fitting			
Process Connectio Location:	n	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:		3ft shielded cable standard. Optional custom length cable up to 100ft			
Front Cover:		3" Protective cover (OPT.)			
Seal Surface Finish	1:	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 Rating:		Weatherproof, IP65 <sup>(1)</sup>			
Remote Mount Ser	nsor:	3ft shielded cable standrad. Optional custom length cable up to 25ft.			



### **KEY BENEFITS**

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

DISPLAY	
Display:	Full 5 Digital LCD
Bar Graph:	Allows for adjustment of bar graph & 4-20 mA, 10 segment (OPT.)
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 COMPONENTS					
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 <sup>(1)</sup> (-10°C to 60°C)	-14°F to 275°F <sup>(2)</sup> (-10°C to 135°C)	-4°F to 158°F (-20°C to 70°C)				

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

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### **TEMPERATURE ERROR**

±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, inH<sub>2</sub>O with 3 temp. (OPT.):  $(20^{\circ}C)$ ,  $60^{\circ}F$ ,  $(4^{\circ}C)$ ,

mmHg, ftH<sub>2</sub>O, mPa, kPa, kg/cm<sup>2</sup> 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): 100ms, 1sec, 500ms or 200ms

Dampening (Damp): None, Average, 8, 6, 4 or 2 times per 100ms

Zero Disable: Zero "lockout" feature

Field Recalibration: Zero, Span & Midscale (password protected)

Calibration: Allows for recalibration of zero & span

### **KEYPAD FUNCTIONS**

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 100feet.

**EXAMPLE - XJZ** 

Gauge cable length = 15' Seal cable length = 10'

1sec. 500ms or 200ms

### STANDARD PRESSURE RANGES - Range abbreviations for part code shown below in () in txt boxes

(#) PSI	(IMM) in.Hg (vacuum)	(#&V) Comp. (psi)	(MM) mmHg (pressure)	(IM) in.Hg (pressure)	(IW) in.H₂O	(MBR) mBar	(FW) ftH₂0	(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

## **Data Sheet**



## 2030 Series Digital Sanitary Pressure Gauge

ORDERING CODE	Example:	30	2032	S	D	20	L	1000#	-XLB
Dial Size									
30 - 3.0"		30							
Model (Accuracy)									
2032 - Battery power			2032						
2132 - 4-20 mA loop powered									
2232 - 12-36 Vdc									
2036 - Battery power (1½" Inline Tri-Clamp® conn.	only)								
2136 - 4-20 mA Loop (1½" Inline Tri-Clamp® conn	only)								
2236 - 12-36 Vdc (1½" Inline Tri-Clamp® conn. on									
Standard	· <del>y)</del>								
S - 316L SS				S					
Case				<u> </u>					
D - Dry					D				
•									
Seal Size Process Connection									
Seal Size (2-32)									
75 - ¾″ Tri-Clamp®									
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									
T - Top									
Pressure Range (see range table for standard	ranges)								
Vacuum									
0#V - 0 -15 psi vacuum									
Compound									
15#&V - Vac. to 15 psi (required option MY food of	arada minaral ail fill\								
30#&V - Vac. to 13 psi (required option MY food of									
	grade mineral oil liil)								
Gauge									
15# - 0 to 5 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")								-X
AO - 4-20 mA output for line power gauges with s									
BK - Battery back-up									
BL - Backlight (models 2132 and 2136 also requi	ires option BK to power light)								BL
CK - Silicone fill fluid	р								
CZ - Food grade silicone fill fluid									
FF - Flange for panel mounting									
HN - Mini Hirschmann® connector includes matin	a connector								
	<u> </u>	000							
JZ - Custom cable length customer must specify	cable length in special instructi	UIS							
MF - Free from mercury certificate									
MN - Mylar® tag bonded to case		-1							
MY - Food grade mineral oil (required for Compou	una ana vacuum ranges) till fluid	u							
NH - Metal tag wired to case									
NN - Paper tag bonded to case									
PP - Protective front cover									
RE - Remote mount seal & sensor (3' shielded cal									
CD-1 - Certificate of conformance to specs. and/	or drawings								
C4 - Individual certified calibration chart (NIST tra									
U1 - (1)SPDT Switch (line power gauges only, shie									
U2 - (2)SPDT Switch (line power gauges only, shie									
6B - Cleaned for oxygen service									
C.CaCa .C. Drygon Corvido									
									3 of



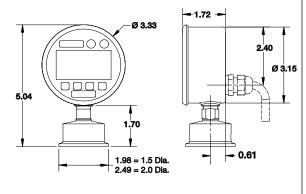
## 2030 Series Digital Sanitary Pressure Gauge

## **1037 Instrument Fittings**

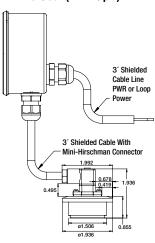
### **DIMENSIONS** in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

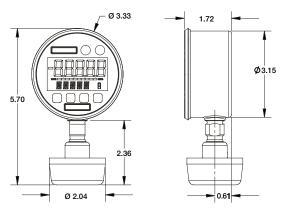
#### 2032, 3132, 2232 With 11/2" or 2" Diameter Seal



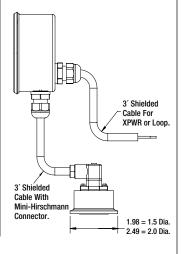
## 2136, 2236 With Remote Seal In-Line Seal (XRE Opt.)



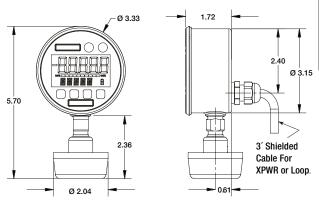
### 2036 With 11/2" In-Line Seal



# 2132, 2232 With Remote Seal (XRE Opt.)



### 2136 With 11/2" In-Line Seal



### **1037 SPECIFICATIONS**

Type 1037 Fitting

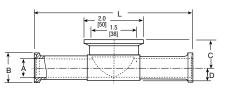
- Pipe O.D. sizes from 1/2" thru 2"
- 316L SS
- Electropolished 12-20RA internal surface finish
- Heat number of wetted materials stamped on each fitting
- Actual material certicates and certificate of conformance supplied as standard to EN 10204:2004 3.1

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

#### **HOW TO ORDER**

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	Α	В	С	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]
11/2	1.37	1.98	1.13	0.81	5.50
	[34.7]	[50.4]	[28.7]	[20.6]	[139.7]
2	1.86	2.51	1.13	1.06	7
	[47.2]	[62.8]	[28.7]	[26.9]	[177.8]