

ASHCROFT®

- **A Multi-Functional Digital Gauge with Optional:**
 - 4/20mA Output
 - (1) or (2) SPDT Switches
- **±.25% of Span Terminal Point Accuracy (.13% BFSI)**
- **IP 65 Weatherproof Case**
- **Three Case Options: Stainless Steel, Fiberglass Reinforced Thermoplastic or Aluminum**
- **Extra Large Display**
- **Intrinsically Safe, Class I, Div. 1 (pending)**

PRODUCT SPECIFICATIONS

Type:	2074 (battery) 2174 (loop) 4-20mA 2274 (line)
Accuracy:	±.25% of span, terminal point
Case Size:	3", 4 1/2"
Case Material:	3" stainless steel, 4 1/2" fiberglass reinforced thermoplastic or black epoxy coated aluminum
Case Encl. Rating:	Weatherproof, IP65
Wetted Materials:	17-4 stainless steel (sensor), 316 stainless steel (socket)
Socket Size:	1/4 or 1/2 NPT, JIS, DIN, SAE, (1/2 NPT only with 4 1/2" case, others on application)
Socket Location:	Lower, 3, 9 and 12 o'clock
Ranges:	15 psi/Vac. thru 20,000 psi (see engineering units below for other units)
Operating Temp.:	14/140°F (10/60°C)
Temp. Error:	(Zero & Span) .04%/°F (<.02%°F Typical)
Storage Temp.:	-4/158° (-20°/70°F)
DISPLAY	
Type:	LCD
Display Digits:	Five (5)
Character Height:	3" case: .60", 4 1/2" case: .88"
Backlite:	Optional
Bar Graph:	Yes
Battery Life:	3" >1000 hrs., 4 1/2" >3600 hrs.
Agency Approvals:	CE, FM (Intrinsically Safe Class I, Div 1) CSA and CENELEC (pending)

KEYPAD FUNCTIONS

On/Off:	Manually turns unit on and off (auto off options in menu)
Zero/Clear:	Zeros display or clears min. and max. values when displayed
Min/Max ▼ (down) Arrow Key:	Stores min & max values, arrow key allows for scrolling thru menu items
Menu Key:	Provides access to menu options
Backlite ▲ (up) Arrow Key:	Manually turns backlite on and off (auto off options in menu), arrow key allows for five menu options.
(Backlite optional) ▲ (up) arrow key:	allows for scrolling thru menu options
Enter:	Selects items in the menu

MENU MODE

Engineering Units: 10 units of measurement are available; psi, In. H₂O (with three temp. options: 20°C, 60°F, 4°C*), Ft. H₂O, mPa, mBar, kPa, kg/cm², Bar, inHg and mmHg

- **Easy-to-Use Menu Options: (all password protected)**
 - Five Backlite Display Options
 - Twelve Engineering Units
 - Menu Configure Feature
 - Update Rate
 - Dampen Rate
 - Auto-Off

Configuration Mode:	Allows for changes to default settings of gauge
(Config):	Including zero disable feature
Bar Graph (Graph):	Allows for adjustment of bargraph and 4-20 (optional feature)
Auto Off (Off):	Allows for changes to auto off of gauge, five options: Never, 2 min., 5 min., 15 min., 30 min.
Update Rate (Update):	Four options: 100 ms, 200 ms, 500 ms, 1 sec
Dampening (Damp):	Six options: None, average, 2, 4, 6, 8 times per 100ms
Backlite:	Five options: Never, 10 sec., 30 sec., 1 min., 5 min.
Field Recalibration:	Allows for recalibration of zero, mid-scale and span (password protected)

OPTIONS

Description	Code	Case Size
Case Options		
Aluminum Case (black epoxy coated) (Glass reinforced thermoplastic case standard)	AY	4 1/2" only
Electropolished Case (Brushed SS case standard)	EC	3" only

DIGITAL INDUSTRIAL GAUGE RANGES:

psi	In. Hg (vacuum)	Comp. (psi)	mmHg (pressure)	In. Hg (pressure)	In. H ₂ O	mBar	ft. H ₂ O	mPa	kPa	Bar/ KSC
15	30	15#&Vac	800	30	400	1000	60	1	100	1
30		30#&Vac	1000	60	800	1500	160	1.6	160	1.6
60		60#&Vac	2000	100	1000	2000	200	2.5	250	2.5
100		100#&Vac	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
1500								100	10,000	100
2000								140	16,000	160
3000									25,000	250
5000									40,000	400
8000									60,000	600
10,000									100,000	1000
15,000									140,000	1400
20,000										

TO ORDER THIS DIGITAL INDUSTRIAL GAUGE:

Select:	30	2074	SD	XXX*	100#
1. Dial Size: 3"					
2. Type: 2074					
3. Wetted parts: 316 SS					
4. Connections: 1/4 NPT Lower					
5. Range: 100 psi					

*See options chart

Digital Industrial Gauge Types 2074, 2174 and 2274

Now Available With CE and FM Agency Approvals



Switch Options

(1) SPDT Switch (12-36Vdc)	U1	3", 4 1/2"
(2) SPDT Switch (12-36Vdc)	U2	3", 4 1/2"
Line Power with 4-20mA output (Line power (Type 2274) required for switching options.) (Terminal blocks standard with 4 1/2" case.) (3" shielded cable standard)	AO	3", 4 1/2"

Wiring Options

(3" shielded cable standard) (Terminal blocks standard with 4 1/2" case.)	EN	4 1/2"
---	----	--------

Keypad Options

Backlite	BL	3", 4 1/2"
----------	----	------------

Miscellaneous Options

Battery Backup (Battery standard with Type 2074) (Available with Types 2174 & 2274)	BK	3", 4 1/2"
Weatherproof ABS Gauge Carrying Case	S7	3" only
Protective Rubber Boot (black)	B1	3" only
Protective Rubber Boot (orange)	B2	3" only
Protective Front Cover	PP	3" only