ASHCROFT®
Trust the shield.®

2084, 2086 & 2089 Digital Test Gauge

FEATURES
- Full Scale Total Error Band (TEB) includes the effects of linearity, hysteresis, repeatability and temperature from 0 °F to 150 °F (-18 °C to 63 °C)
- Weatherproof IP65
- Large LCD display
- Seven languages
- Field calibration capability

TYPICAL USES
- Test bench / gauge repair facilities
- Calibration laboratories
- Mobile calibration labs
- Test measurement and validation

SPECIFICATIONS

Accuracy:	2089: ±0.05% of span accuracy 2086: ±0.10% of span accuracy 2084: ±0.25% of span accuracy Terminal Point, Total Error Band (TEB) Including Hysteresis, Linearity, Repeatability and Temperature (0 °F to 150 °F)
Size:	3˝
Case Material:	300 Stainless Steel
Case Finish:	Tumble polished
Storage/Protection:	Stainless steel face cover (included) Zippered gauge pouch (included) Black or orange rubber boot (optional)
Carrying Case:	Weatherproof ABS gauge carrying case (optional)
Process Connection:	¼ NPT Male
Process Connection Location:	Lower, left or right
Mounting:	Stem
Ranges:	Gauge, compound, absolute and vacuum thru 7,000 psi (see engineering units on page 3 for other units of measurement)
Temperature Corrected:	Yes
Calibration Chart:	10 point traceable calibration chart included. ISO/IEC 17025 certified calibration with chart (optional)
Enclosure Rating:	Weatherproof, IP65

WETTED COMPONENTS

Model	Process Connection and Sensor
2084, 2086, 2089	316 Stainless steel

NON-WETTED COMPONENTS

Model	Case
2084, 2086, 2089	304 Stainless steel

MIN/MAX TEMPERATURE LIMITS

Version	Process	Storage
2084, 2086, 2089	0 °F to 150 °F (–18 °C to 65 °C)	–40 °F to 180 °F (–40 °C to 82 °C)

2084, 2086 & 2089
3˝ dial size

KEY BENEFITS
- Highly accurate test instruments
- Silicone MEMS sensor technology provides accuracy and long term stability
- Rugged and portable design
- Twelve engineering units

DISPLAY

Type:	LCD
Display Digits:	5
Character Height:	0.66˝
Backlight:	Off by default, programmable Manually turns backlight on and off
Bar Graph:	10 segment
Battery Life:	1,000 hrs. (3 AAA alkaline batteries)

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PRESSURE RATINGS

Overpressure:	Proof:	Burst:
Vac to ≤300 psi	2 X Range	3 X Range
≥300 to ≤3,000 psi	2 X Range	5 X Range
≥5,000 to ≤7,000 psi	2 X Range	2 X Range

AGENCY APPROVALS

FM and CSA Intrinsically Safe.
FM Class I to III, Div. 1 Groups A-G
CSA Class I, Div. 1, Groups A-D, Class II Div. 1, Groups E-G, Class 2 Div. 2
Groups F and G, Class III
**Note: FM/CSA approval not valid on vacuum to 15 psi and vacuum to
30 psi ranges**

ORDERING CODE

Example: **30 2089 S D 02 L XS7 1000#**

Description	30	2089	S	D	02	L	X	1000#
Dial Size								
30 - 3.0˝	30							
Model (Accuracy)								
2089 - ±0.05% of span (Traceable calibration certificate)		2089						
2086 - ±0.10% of span								
2084 - ±0.25% of span								
System								
S - 316 Stainless Steel			S					
Case								
D - Dry				D				
Process Connection Size								
02 - ¼ NPT Male					02			
Process Connection Location								
L - Lower						L		
E - Left (9 o'clock)								
D - Right (3 o'clock)								
T - Top								
Options (if choosing an option(s) must include a "X")							X	
B1 - Protective rubber boot (black) (not available with FF option)								
B2 - Protective rubber boot (orange) (not available with FF option)								
C4 - Traceable calibration certificate (included on 2089, no code required)								
FF - Flange for panel mounting (not available with B1 and B2 options)								
MF - Free from mercury certificate								
MN - Mylar tag bonded to case								
NH - Metal Tag wired to case								
NN - Paper Tag bonded to case								
S7 - Weatherproof ABS gauge carrying case								
TU - Throttle plug								
25 - ISO/IEC 17025 certified calibration								
6W - Cleaned to ASME B40.100 level IV NOT marked for oxygen service (6B oxygen cleaning not available)								
Range (coding example, see range table below for all standard ranges)								
1,000# - 0-1,000 psi								1000#

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MENU MODE

Engineering Units:	psi, inHg, inH$_2$O, ftSW, Bar, mBar, kPa, mPa, mmHg, cmH$_2$O, mmH$_2$O and kg/cm^2
Configuration Mode (Config):	Access configuration menus to select available options
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):	100 ms, 200 ms, 500 ms or 1 sec
Dampening (Damp):	None, average, 2, 4, 6 or 8 times per 100 ms
Backlite:	Never, 10 sec., 30 sec., 1 min. or 5 min.
Field Recalibration:	Allows for recalibration of zero, midscale and span (password protected)

KEYPAD FUNCTIONS

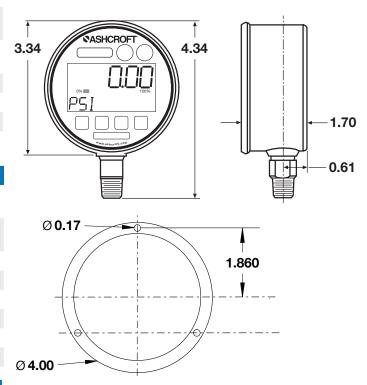|	
On/Off:	Manually turns unit on and off (auto off options in configuration menu)
Min./Max. (down) Arrow Key:	Stores Min. and Max. values, arrow key allows for scrolling thru menu items
Zero/Clear:	Zeros display and clears Min. and Max. values
Zero Disable:	Allows for disabling of Zero button
Contrast:	Seven options available
Disable:	Allows for "lock-out" of CONFIG options
Menu Key:	Provides access to menu options
Enter:	Selects items in the configuration menu

DIMENSIONS in inches

For reference only, consult Ashcroft for specific dimensional drawings

STANDARD PRESSURE RANGES

SINGLE SCALE	
psi	**bar**
Pressure	
5#	1 BR
10#	1.6 BR
15#	
30#	2.5 BR
60#	4 BR
100#	6 BR
160#	10 BR
200#	16 BR
	25 BR
	40 BR
300#	60 BR
500#	
600#	160 BR
800#	250 BR
1000#	400 BR
2000#	500 BR
2500#	
3000#	
5000#	
7000#	

SINGLE SCALE	
psi	**bar**
Absolute	
15#A	1.0 BRA
25#A	1.6 BRA
50#A	2.5 BRA
Compound	
15#&V	
30#&V	1 BR & V
60#&V	2 BR & V
100#&V	3 BR & V
Vacuum	
0#&V	0 BR & V

Consult factory for additional ranges and units of measure.