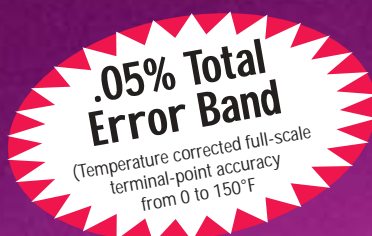


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Precision Digital Test Gauge

- *Industry Leading Accuracy*
- *Breakthrough Display*
- *Rugged & Portable Design*
- *Configurable Options Including:*
 - *12 Engineering Units*
 - *7 Languages*
 - *Update and Dampen Modes*
 - *Password Protected Calibration, Zero and Span*
 - *Disable Mode*



IS YOUR DIGITAL GAUGE AS ACCURATE AS YOU THINK?

Gauge accuracy can be dramatically impacted by changes in temperature, re-zeroing of gauges and other factors. Until now there has been no one single solution to address these concerns. The Ashcroft precision digital test gauge is that solution.

EXCLUSIVE TEB ACCURACY

- .05% Full Scale Total Error Band (TEB). Includes the effects of linearity, hysteresis, repeatability and temperature from 0/150°F
- Gauge also available with .1% or .25% TEB accuracies
- Terminal point accuracy allows re-zeroing to eliminate sensor offset.
- 12 units of measurement
- Inches of water range for three temperatures: 4°C, 20°C and 60°F

INDUSTRY LEADING FEATURES

RUGGED DESIGN

- Stainless steel case to socket weld for strength
- Lexan window protects display from damage
- Stainless steel cover protects keypad
- Weatherproof, NEMA 4, IP65 case
- Intrinsically safe, FM Approved Class I, Div. 1
- Strain relief to protect wiring while replacing batteries

INDUSTRY LEADING DISPLAY AND PORTABLE SIZE

- Industry's smallest case size (3")
- Most compact overall design
- Seven languages
- Largest display height of .66"
- % of range bar graph
- Most compact overall design

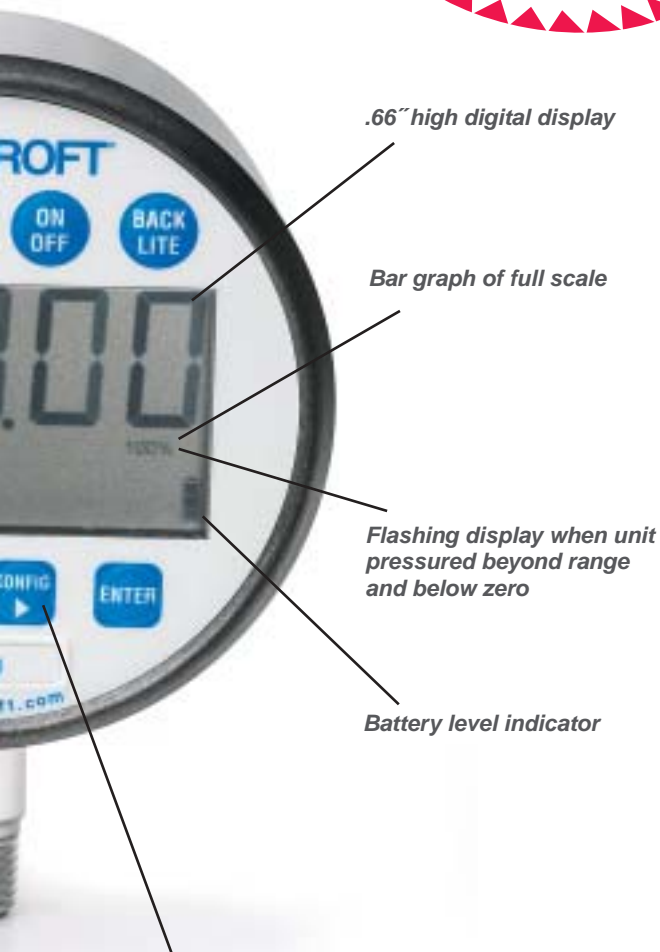
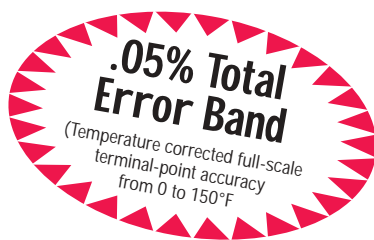
SAFETY

- The only portable digital test gauge that meets ASME B40.7
- Pressure range and bar graph on keypad reduces accidental overpressure
- Proof pressure = 2 x gauge range



Range on keypad, complies with ASME B40.7, reduces the possibility of accidental overpressure

*Press to indicate minimum or maximum pressure gauge has measured
Stores Minimum and Maximum Values*



.66" high digital display

Bar graph of full scale

Flashing display when unit pressured beyond range and below zero

Battery level indicator

INDUSTRY LEADING CONFIGURABLE OPTIONS

- **UNITS** of measurement – 12 options including $\sim \text{H}_2\text{O}$ with three temperature options
- **LANGUAGES** – Seven available options
- **UPDATE RATE** – Four options; measured per second
- **DAMPING** – Five options; averages readings per milliseconds
- **PASSWORD PROTECTED** – Calibration, Zero & Span
- **DISABLE** – Password protected
- **BACKLITE** – Five options including NEVER
- **CONTRAST** – Seven available options
- **AUTO OFF** – Five options

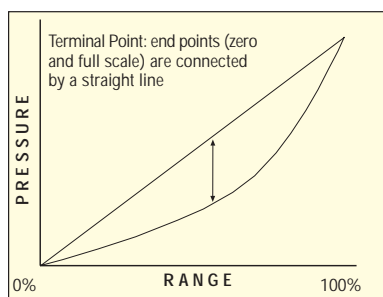
What you should know about digital test gauge accuracy... Terminal Point versus Best Fit Straight Line Accuracy.

Ambient Temperature Changes

Unlike the Ashcroft digital gauge with total error band from 0-150°F. Other manufacturers of digital gauges may specify operating temperature range *without* specifying the additional error associated with changes in ambient temperature. Errors can range as high as .04%/°F. A 25°F change from an ambient of 70°F may add an additional 1% to the stated accuracy of the gauge!

Ashcroft Precision Digital Gauges with Terminal Point Accuracy

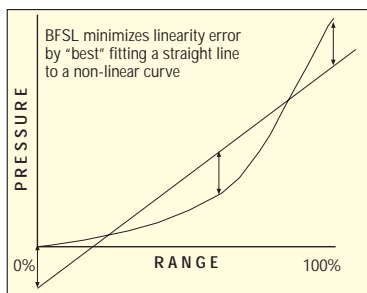
- Gauges calibrated with **Zero Error** at zero and full scale



Benefit

- All points between zero and full-scale will be within stated accuracy
- Allows zeroing of gauge at start-up to eliminate any zero shift

Competitive Digital Gauges with Best Fit Straight Line (BFSL) Accuracy



- Linearity error minimized by "best" fitting a straight line to a non-linear curve.
- BFSL gauges have a zero offset at calibration that must be maintained to ensure accuracy throughout range

Problem

- Rezeroing gauge may invalidate published Accuracy specification
- Zero offset at start-up may be the result of:
 - BFSL Calibration...OR
 - Zero Drift

The Bottom Line...

Ashcroft Digital Test Gauge Accuracy Includes

Linearity	✓
Hysteresis	✓
Repeatability	✓
Temperature (0/150°F)	✓
Terminal Point Accuracy	✓

= Total Error Band (TEB)
...An Ashcroft Exclusive

Precision Digital Test Gauge

PRODUCT SPECIFICATIONS

Type:	2089 (0.05% accuracy), 2086 (0.10% accuracy), 2084 (0.25% accuracy)
Accuracy:	0.05%, 0.10% or 0.25% all Full Scale Terminal Point Total Error Band (TEB) Including Hysteresis, Linearity, Repeatability and Temperature (0/150°F)
Case Size:	3"
Case Material:	300 Series Stainless Steel
Case Finish:	Electropolished
Case Rating:	Weatherproof, IP65, NEMA 4
Wetted Parts:	316 Stainless Steel
Socket Size:	1/4 NPT, JIS, DIN, SAE, (others on application)
Connection:	Lower – 3 and 9 o'clock
Ranges:	Vac. thru 7500 psi (see engineering units below for other units of measurement)
Operating Temp.:	0/150°F (–18/63°C)
Storage Temp.:	–40/180°F (–40/82°C)
Temp. Corrected:	Yes

DISPLAY

Type:	LCD
Display Digits:	4½, 19,999 counts
Character Height:	.66"
Backlite:	Off by default
Bar Graph:	Yes
Battery Life:	>1000 hrs. (3 AAA alkaline batteries)
Agency Approvals:	CE, FM (CSA, Cenelec approvals pending)

KEYPAD FUNCTIONS

On/Off:	Manually turns unit on and off (auto off options in configuration menu (CONFIG))
Backlite:	Manually turns backlite on and off (auto off options in configuration menu (CONFIG))
Min/Max:	Stores min. and max. values when displayed
Zero/Clear:	Zeros display or clears min. and max. values when displayed
Enter:	Selects items in configuration menu (CONFIG)

CONFIGURATION MODE (CONFIG)

	Allows scrolling through configuration menus to select available options
Engineering Units:	psi, "Hg, "H ₂ O, ftSW, Bar, mBar, kPa, mPa, mmHg, cmH ₂ O, mmH ₂ O, kg/cm ²
Update Rate:	4 Options: 10x/sec, 5x/sec, 2x/sec, 1x/sec
Auto Off:	5 Options: Never, 2 min., 5 min., 15 min., 30 min.
Dampening:	5 Options: None, average 2, 4, 6, 8 readings
Language:	7 Languages: English, Spanish, French, Italian, German, Portuguese, Dutch
Backlite:	5 Options: On/off, 10 sec., 30 sec., 1 min., 5 min.
Calibrate:	Zero and Span (password protected)
Contrast:	7 available options
Disable:	Allows for "lock-out" of CONFIG options

CALIBRATION CHART

	10 point individual calibration chart, standard for Type 2089, others optional
Standard Features:	300 Series St. St. Protective Cover, Protective Carrying Pouch

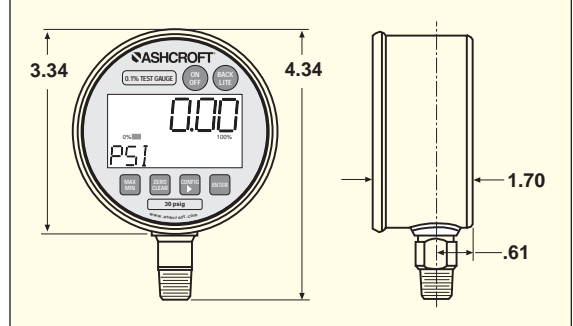
DIGITAL TEST GAUGE RANGES:

psi	Compound (psi)	kPa	Bar/ KSC	Compound (bar)
vac.	15# & vac.	25	1	–1 to 3
10	30# & vac.	40	1.6	–1 to 30
15		60	2.5	
30*		100	4	
60		160	6	
100		250	10	
160		400	16	
200		600	25	
300*		1000	40	
500			60	
600			100	
800			160	
1000			250	
1500			400	
2000			500	
2500				
3000*				
5000				
7500				

*Only available with Types 2086 and 2084

mmH ₂ O	mPa	mBar/ cmH ₂ O	Absolute (psia)	Temp. Options
3000	1	250	15	4°C
5000	1.6	300	25	20°C
10,000	2.5	400	50	60°F
	6	500		
	100	600		
	160	1000		
	250	1600		
	400	2000		
	500	2500		
		4000		
		5000		
		6000		
		10,000		

Dimension Drawing



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