

3084, 3086 & 3089 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:	3089: ±0.05% of span accuracy 3086: ±0.10% of span accuracy 3084: ±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:	1/4 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 standard for model 3089 only, optional for models 3084 and 3086.	
Enclosure Rating:	Weatherproof, IP65	
Watted Campage	anta	

Wetted Components				
Model	Process Connection and Sensor			
3084, 3086, 3089	316 Stainless steel			
Non-Wetted Components				
Model	Case			
3084, 3086, 3089	304 Stainless steel			









KEY BENEFITS

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

Min/Max Temperature Limits

Version	Process	Storage		
3084, 3086, 3089	0 °F to 150 °F (-18 °C to 65 °C)	-40 °F to 180 °F (-40 °C to 82 °C)		
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 ≥300 to ≤3,000 psi ≥5,000 to ≤7,000 psi	2 X Range 2 X Range 2 X Range	3 X Range 5 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 the following ranges: 0#&V, 15#&V, 30#&V, 0BR&V, 1BR&V, 2BR&V

Ordering Code	Example:	30	3089	S	D	02	L	XS7	1000#
Dial Size									
30 - 3.0"		30							
Model (Accuracy)			-						
3089 - ±0.05% of span (Traceable cali	bration certificate)		3089						
3086 - ±0.10% of span									
3084 - ±0.25% of span									
System									
S - 316 Stainless Steel				S					
Case									
D - Dry					D				
Process Connection Size									
02 - 1/4 NPT Male						02			
Process Connection Location							'		
L - Lower							L		
E - Left (9 o'clock)									
D - Right (3 o'clock)									
Т - Тор									
Options (if choosing an option(s) mu	ıst include a "X")							Χ	
B1 - Protective rubber boot (black) (no	t available with FF option)								
B2 - Protective rubber boot (orange) (r	not available with FF option)								
C4 - Traceable calibration certificate (in	ncluded on 3089, no code required)								
FF - Flange for panel mounting (not av	ailable 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	g case								
TU - Throttle plug									
25 - ISO/IEC 17025 certified calibration	n								
6W - Cleaned to ASME B40.100 level	IV NOT marked for oxygen service (6B o	oxygen cleanir	ng not ava	ilable)					
Range (coding example, see range t	able 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

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#	350 BR	
2000#		
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.

Dimensions in inches

For reference only, consult Ashcroft for specific dimensional drawings

