

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:	ected: Yes	
Calibration Chart:	10 point traceable calibration chart standard for model 3089 only, optional for models 3084 and 3086.	
Enclosure Rating:	Weatherproof, IP65	

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			
A series Americale					

Agency Approvals

FM Intrinsically Safe.

FM Class I to III, Div. 1 Groups A-G

Note: FM 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 calibrate	ion 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)									
T - Top									
Options (if choosing an option(s) must i	nclude a "X")							Χ	
B1 - Protective rubber boot (black) (not av	ailable with FF option)								
B2 - Protective rubber boot (orange) (not a	available with FF option)								
C4 - Traceable calibration certificate (inclu	ded on 3089, no code required)								
FF - Flange for panel mounting (not availa	ble 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 ca	se								
TU - Throttle plug									
25 - ISO/IEC 17025 certified calibration									
6W - Cleaned to ASME B40.100 level IV N	IOT marked for oxygen service (68	B oxygen cleanir	ng not ava	ilable)					
Range (coding example, see range table	e below for all standard ranges)								
1,000# - 0-1,000 psi									1000#



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Menu Mode	
	wai inlig inli O #CW Day mDay kDa mDa
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

