

3084, 3086 and 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

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SP		CAL	IONS

Accuracy: $3089: \pm 0.05\%$ of span accuracy $3086: \pm 0.10\%$ of span accuracy $3084: \pm 0.25\%$ 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

Case: Weatherproof ABS gauge carrying case

Process Connection: 1/4 NPT Male

Process Connection

Location:

Mounting: Sten

Ranges: Gauge, compound, absolute and vacuum thru

Lower, left or right

7,000 psi (see engineering units on page 3 for

other units of measurement)

Temperature Corrected: Yes

Calibration Chart: 10 NIST Traceable chart included with 3089,

optional for 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

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)



3084, 3086 & 3089

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 ≥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 vacuum and 15# & vacuum ranges

ORDERING CODE	Example:	30	3089	S	D	02	L	XS7	1000#
Dial Size									
30 - 3.0"		30							
Model (Accuracy)			_						
3089 - ±0.05% of span (includes NIST traceab	le calibration 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) must include a "X") X									
6W - Cleaned to ASME B40.100 level IV NOT r									
C4 - Individual certified calibration chart (included)	ded on 3089 no code required)								
S7 - Weatherproof ABS gauge carrying case								S7	
FF - Flange for panel mounting									
B1 - Protective rubber boot (black)									
B2 - Protective rubber boot (orange)									
NH - Metal tag wired to case									
NN - Paper tag bonded to case									
MF - Free from mercury certificate									
TU - Throttle plug									
MN - Mylar tag bonded to case									
Range (coding example, see range table be	low 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 100ms	
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#	400 BR			
2000#	500 BR			
2500#				
3000#				
5000#				
7000#				

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

Consult factory for additional ranges and units of measure.

DIMENSIONS in

For reference only, consult Ashcroft for specific dimensional drawings

