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

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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				
Case:	Weatherproof ABS gauge carrying case				
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 NIST Traceable chart included with 2089, optional for 2084 and 2086				
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					





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	
Туре:	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

 $\mathsf{CSA}\ \mathsf{Class}\ \mathsf{I}, \mathsf{Div}.\ \mathsf{1}, \mathsf{Groups}\ \mathsf{A}\text{-}\mathsf{D}, \mathsf{Class}\ \mathsf{II}\ \mathsf{Div}.\ \mathsf{1}, \mathsf{Groups}\ \mathsf{E}\text{-}\mathsf{G}, \mathsf{Class}\ \mathsf{2}\ \mathsf{Div}.\ \mathsf{2}$

Groups F and G, Class III

Note: FM/CSA approval not valid on vacuum and 15# & vacuum ranges

ORDERING CODE	Example:	30	2089	S	D	02	L	XS7	1000#
Dial Size									
30 - 3.0″		30							
Model (Accuracy)			-						
2089 - ±0.05% of span (includes NIST tra-	ceable 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)									
Т - Тор									
Options (if choosing an option(s) must i	include a "X")							Х	
6W - Cleaned to ASME B40.100 level IV N	IOT marked for oxygen service								
C4 - Individual certified calibration chart (i	included on 2089 no code required)								
S7 - Weatherproof ABS gauge carrying ca	ise							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 tabl	e below for all standard ranges)								
1,000# - 0-1,000 psi									1000#

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MENU MODE

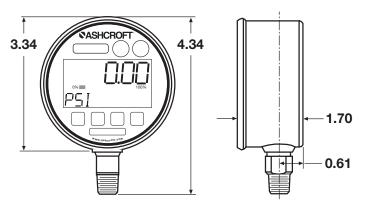
Engineering Units:	psi, inHg, inH₂O, ftSW, Bar, mBar, kPa, mPa, mmHg, cmH₂O, mmH₂O and kg/cm²		
Configuration Mode (Config):	Access configuration menus to select available options		
Auto Off (Off):	Allows for changes to auto off of gauge, five options: Never, 2 min., 5 min., 15 min., 30 min.		
Update 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)		

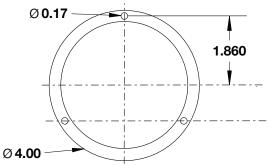
KEYPAD FUNCTIONS

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

DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings





STANDARD PRESSURE RANGES

SINGLE SCALE		SINGLE SCALE						
psi	bar	psi	bar					
Pressure		Absolute						
5#	1 BR	15#	1.6 BR					
10#	1.6 BR	25#	1 BR					
15#		50#	1.6 BR					
30#	2.5 BR	Compound						
60#	4 BR	15#&V	0 BR & V					
100#	6 BR	30#&V	1 BR & V					
160#	10 BR	60#&V	2 BR & V					
200#	16 BR	100#&V	3 BR & V					
	25 BR	Vacuum						
	40 BR	15#&V	0 BR & V					
300#	60 BR	Consult factory for	r additional ranges					
500#		and units of measure.						
600#	160 BR							
800#	250 BR							
1000#	400 BR							
2000#	500 BR							
2500#								
3000#								
5000#								
7000#								

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