ASHCROFT® Trust the shield.®

1082 Test Gauge

FEATURES

- MircoSpan[™] adjustment eases span calibration
- Mirror-band dial and knife-edge pointer eliminates paralax error while assuring easy readability of precise measurements
- Teflon[™] coated, stainless steel movement
- Accuracy complies with ±0.25% of span (ASME B40.1 Grade 3A)
- Externally adjustable dial

TYPICAL USES

- Test benches
- Specialized OEM equipment
- Test and measurement & validation
- Calibration labs

Case

Aluminum, solid front,

black epoxy coated

SPECIFICATIONS								
Accuracy:	±0.25% of span (ASME B40.100 Grade 3A)							
Ranges:	Vacuum, Compound to 10	acuum, Compound to 10,000 psi						
Sizes:	4½", 6"or 8½"							
Process Connection Location:	Lower or Back							
Process Connection:	1/4 NPT Male or 1/2 NPT Ma	ale						
Dial:	Externally adjustable alur with polished mirror band							
Case Style:	Solid front							
Movement:	Movement: 400 Series SS rotary design, Teflon™ S coat bearings, micrometer span adjustment, bim temp. compensator (0.005%/per °F Max. temperature error)							
Pointer:	Black painted aluminum with red-painted, knife edge tip							
Mounting Options:	Stem or flush							
Weather Protection:	Case not sealed, recomm protected environment or							
Approvals:	CE/UKCA, CRN							
WETTED COMPON	NENTS							
Bourdon Tube	Process Connection	Joints						
Bronze	Brass Silver Brazed							
Monel®	Monel® Welded							
NON-WETTED COMPONENTS								

Ring

Hinged steel, black

wrinkle finish

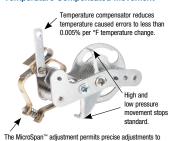


1082

4½", 6", 8½" dial sizes

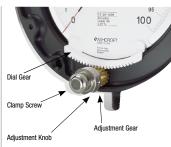


Temperature Compensated Movement



achieve zero error in calibration at zero and 100% of scale.

Externally Adjustable Dial



KEY BENEFITS

- Temperature-compensated movement significantly reduces temperature error
- Rugged stainless steel construction
- Compact design

MIN/MAX TEMPERATURE LIMITS										
Version Ambient Process Storage										
Dry		-20 °F to 250 °F (-29 °C to 121 °C)								

Window

Glass



1082 Test Gauge

Note 1082	ORDERING CODE	Example:	45	1082	Р	s	02	L	100#	-XPD
60 - 6" dial 85 - 81% dial Model Model 1082 - Test gauge 1082 System A - Bronze tube and brass socket (maximum available range 400 psi) P - Monel® tube and socket P P - Monel® tube and socket M P - Monel® tube and socket P P - Monel® tube and socket M P - Monel® tube and s	Dial Size									
85 - 89'' dial	45 - 4½" dial		45							
Mode 1082	60 - 6" dial									
1082 - Test gauge	85 - 8½" dial									
Nomine N	Model			-						
A - Bronze tube and brass socket (maximum available range 400 psi) P - Monel* tube and socket P Case Style S - Solid front S Process Connection Size 02 - ¼ NPT Male 02 4 - ½ NPT Male 04 - ½ NPT Male 05 - Back Ranges (See additional range tables on page 3) 15# - 0-15 psi 30# - 0-30 psi 60# - 0-60 psi 100# - 0-100 psi 100# - 0-100 psi 100# - 0-100 psi 100# - 0-000 psi (Monel* wetted parts only) 1000# - 0-400 psi (Monel* wetted parts only) 1000# - 0-1,000 psi (Monel* wetted parts only) 1000# -	1082 - Test gauge			1082						
P	System									
Case Style S S S S F	A - Bronze tube and brass socket (maximum availab	ole range 400 psi)								
S - Solid front	P - Monel® tube and socket				Р					
Process Connection Size 02 - ½ NPT Male 02 04 - ½ NPT Male 02 L - Lower L L - Lower L B - Back L 8 - Back [See additional range tables on page 3) -0-15 psi 30# - 0-30 psi -0-60 psi 100# - 0-100 psi 100# 160# - 0-100 psi 100# 200# - 0-200 psi	Case Style									
02 - ½ NPT Male 02 04 - ½ NPT Male L Process Connection Location L - Lower L B - Back L Ranges (See additional range tables on page 3) 15# - 0-15 psi 30# - 0-30 psi 50# - 0-60 psi 100# - 0-100 psi 100# 160# - 0-160 psi 100# 200# - 0-200 psi 100# 300# - 0-300 psi 400# - 0-400 psi 400# - 0-400 psi (Monel® wetted parts only) 50# - 0-600 psi (Monel® wetted parts only) PD - Acrylic window -X PD - Acrylic window SG - Safety Glass window TS - Throttling devices Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	S - Solid front					S				
Name	Process Connection Size						-			
Process Connection Location L - Lower	02 - 1/4 NPT Male						02			
L - Lower	04 - 1/2 NPT Male									
B - Back Ranges (See additional range tables on page 3) 15# - 0-15 psi 30# - 0-30 psi 60# - 0-60 psi 100# - 0-100 psi 100# 160# - 0-160 psi 200# - 0-200 psi 300# - 0-300 psi 400# - 0-300 psi 400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window PD SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	Process Connection Location									
Ranges (See additional range tables on page 3)	L - Lower							L		
15# - 0-15 psi 30# - 0-30 psi 60# - 0-60 psi 100# - 0-100 psi 100# 160# - 0-160 psi 200# - 0-200 psi 300# - 0-300 psi 400# - 0-400 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") -X PD - Acrylic window PD SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	B - Back									
30# - 0-30 psi 100# - 0-100 psi 100#	Ranges (See additional range tables on page 3)									
100# - 0-100 psi 100# 10	15# - 0-15 psi									
100# - 0-100 psi 160# - 0-160 psi 200# - 0-200 psi 300# - 0-300 psi 400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	30# - 0-30 psi									
160# - 0-160 psi 200# - 0-200 psi 300# - 0-300 psi 400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	60# - 0-60 psi									
200# - 0-200 psi 300# - 0-300 psi 400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window PD SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	100# - 0-100 psi								100#	
300# - 0-300 psi 400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	160# - 0-160 psi									
400# - 0-400 psi 600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window PD SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	200# - 0-200 psi									
600# - 0-600 psi (Monel® wetted parts only) 1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	300# - 0-300 psi									
1000# - 0-1,000 psi (Monel® wetted parts only) Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	400# - 0-400 psi									
Options (If choosing an option(s) must include an "X") PD - Acrylic window SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	600# - 0-600 psi (Monel® wetted parts only)									
PD - Acrylic window PD SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	1000# - 0-1,000 psi (Monel® wetted parts only)									
SG - Safety Glass window TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	Options (If choosing an option(s) must include an	"X")								-X
TS - Throttling devices AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	PD - Acrylic window									PD
AY - Aluminum case, threaded ring (N/A with adjustable dial, Lower connection only) TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	SG - Safety Glass window									
TY - Phenolic case, threaded ring (N/A with adjustable dial, Lower connection only)	TS - Throttling devices									
	AY - Aluminum case, threaded ring (N/A with adjusta	ble dial, Lower connection	n only)							
C4 - <u>Traceable calibration certificate</u>	TY - Phenolic case, threaded ring (N/A with adjustab	le dial, Lower connection	only)							
	C4 - <u>Traceable calibration certificate</u>									



1082 Test Gauge

		STANDARD I	RANGES			
	Ra	nge	Graduations			
Vacuum	psi	in. Hg	Figure Interval	Minor Graduations		
Vac	-	30/0 in. Hg	2 in. Hg	0.1 in. Hg		
	0/15	-	1	0.05		
	0/30	-	2	0.1		
	0/60	_	5	0.2		
	0/100	-	5	0.5		
	0/150	_	10	0.5		
بې	0/200	-	10	1		
Positive Pressure	0/300	_	10	1		
Pre	0/400	-	20	2		
tive	0/600	_	50	2		
osi	0/800	-	50	5		
_	0/1000	-	50	5		
	0/1500	-	100	5		
	0/2000	_	100	10		
	0/3000	-	200	10		
	0/5000	_	500	10		
	0/10,000	-	1000	50		

COMPOUND RANGES										
		in. Hg/psi								
	30/0/15	30/0/20	5/0/2							
	30/0/30	30/0/20	5/0/1							
pur	30/0/60	30/0/20	2/0/1							
Compound	30/0/100	30/0/10	2/0/1							
Con	30/0/150	10/0/5	1/0/0.5							
	30/0/200	10/0/5	1/0/0.5							
	30/0/300	10/0/5	0.5/0/0.2							
	30/0/400	5/0/2	0.5/0/0.1							
	30/0/400	5/0/2	0.5/0/0.1							

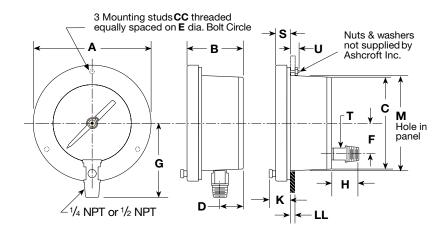
	STAN	DARD RANGI	ES
Vacuum	Bar	kPa	kg/cm²
Vacı	-1/0	-100/0	-1/0
<u> </u>	-1/0/1.5	-100/0/150	-1/0/1.5
Compound	-1/0/3	-100/0/300	-1/0/3
E O	-1/0/5	-100/0/500	-1/0/5
0	-1/0/9	-100/0/900	-1/0/9
	0/1	0/100	0/1
	0/1.6	0/160	0/1.6
	0/2.5	0/250	0/2.5
	0/4	0/400	0/4
	0/6	0/600	0/6
ure	0/10	0/1000	0/10
ress	0/16	0/1600	0/16
Positive Pressure	0/25	0/2500	0/25
siţi	0/40	0/4000	0/40
8	0/60	0/6000	0/60
	0/100	0/10,000	0/100
	0/160	0/16,000	0/160
	0/250	0/25,000	0/250
	0/400	0/40,000	0/400
	0/600	0/60,000	0/600



1082 Test Gauge

DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



Dial Size (inches)	A	В	С	СС	D	E	F	G	н	K	ш	M	S	т	U
41/2	6 ³ / ₃₂ [155]	2 ⁷ / ₈ [73]	4 ³ / ₄ [121]	#10-24	1 ³ / ₁₆ [30]	5 ³ / ₈ [137]	1 ⁵ / ₈ [41]	4 ⁷ / ₈ [100]	1 ³ / ₈ [35]	¹¹ / ₃₂ [34]		4 ⁷ / ₈ [124]		⁵ / ₈ [16]	³ / ₄ [19]
6	7 ⁹ / ₁₆ [192]	2 ⁷ / ₈ [73]	4 ³ / ₄ [121]	1⁄4-20	1 ³ / ₁₆ [30]	7 [178]	1 ⁵ / ₈ [41]	4 ½ [114]	1 ³ / ₈ [35]	1 ¹ / ₃₂ [34]	1/8 to 1/2 [3 to 13]	6½ [165]	⁵ / ₈ [16]	⁵ / ₈ [16]	³ / ₄ [19]
81/2	10 ¹ / ₁₆ [257]	2 ⁷ / ₈ [73]	4 ³ / ₄ [121]	1⁄4-20	1/4-20	9 ⁵ / ₈ [244]	1 ⁵ / ₈ [41]	6 [152]	1 ³ / ₈ [35]	¹¹ / ₃₂ [34]		9 [229]		⁵ / ₈ [16]	³ / ₄ [19]