

# GAUGES

Pneumo and Test Pressure Gauges

SEE BELOW

The advantage of Perma-Cal® direct drive over conventional C-tube gauges is simple; there is only one moving part. No gears, linkages or springs to wear or break. Perma-Cal® gauges maintain their structural integrity and accurate calibration in the most demanding environments even during prolonged and rugged use. Perma-Cal® direct drive pressure gauges provide the lowest cost of ownership by giving the best value in durability, reliability and accuracy.

## Features

- Inconel X-750 helically wound sensing element that has no mechanical moving parts
- Withstands a 50% overpressure without going out of calibration
- Outstanding for vibration, pulsation and shock environments
- Internally dampened to reduce pointer flutter during vibration
- Flange models available in six colors for color coding of ranges or test panels
- Rugged and safe ABS high impact plastic case with solid front - blow out back - the safest design
- Very small internal volume, a safety feature in case of misapplication or catastrophic failure
- Internal, replaceable 316 SS filter snubber
- Standard 316 SS stems and fittings



## Specifications

Proof Pressure without Calibration Shift	150% of Full Scale pressure
Burst Pressure	5x Working Pressure
Accuracy	Grade 3A: ± .25% full scale (includes NIST Cert) Grade 2A: ± .5% full scale or ± .5% Midscale/± 1% full scale
Wetted Parts	Inconel, Stainless Steel and Silver Braze
Calibration	Vertical position standard
Media Temperature	-65° to +250°F with ABS case -65° to +600°F with Aluminum case
Ambient Temperature	-65° to +190°F with ABS case -65° to +400°F with Aluminum case

Amron Part No. **PER-2 0 0 F T M 76 A 2 1 -** (OPTIONS)

Product Type	
<b>PER-2</b>	Seawater Depth Gauge

Accuracy	
<b>0</b>	1/4% Full Scale Includes Calibration Cert
<b>1</b>	1/2% Full Scale
<b>2</b>	1% Full Scale, 1/2% Mid Scale

Dial Size	
<b>0</b>	6 in.
<b>1</b>	4.5 in.
<b>3</b>	2.5 in.
<b>8</b>	8.5 in.

Case Type	
<b>F</b>	Front Flange - ABS (2.5, 4.5, 6 and 8.5 in. dial sizes only)
<b>M</b>	No Flange Metallic (4.5 in. dial size only)
<b>N</b>	No Flange - ABS (2.5, 4.5 and 6 in. dial sizes only)
<b>R</b>	Rear Flange - ABS (2.5, 4.5 and 6 in. dial sizes only)
<b>S</b>	No Flange SS (4.5 in. dial size only)

Pointer Type	
<b>T</b>	Test - Knife Edged

Dial Trim with Mirror Band, Dampening, External Zero Adjust and painted SS dial	
<b>M</b>	2.5, 4.5, 6 and 8.5 in. dial sizes

Misc. Options	
You may select none or as many as you need	
<b>C</b>	Calibration Certificate
<b>H</b>	Helium Leak Test
<b>L</b>	Tempered Glass
<b>O</b>	Cleaned for Oxygen Service
<b>Z</b>	Aluminum Case 2.5 in. NF, 4.5 in. RF, 8.5 in. RF case types only

Fitting Type	
<b>1</b>	1/4 in. NPT
<b>3</b>	1/2 in. NPT

Fitting Position	
<b>0</b>	Rear
<b>2</b>	Bottom (6 o'clock position)
<b>4</b>	Top (12 o'clock position)

Case Color					
<b>A</b>	Black	<b>G</b>	Green	<b>W</b>	White
<b>B</b>	Blue	<b>R</b>	Red	<b>Y</b>	Yellow

Pressure Ranges					
FSW		FSW		FSW/MSW	
Code	FSW	Code	FSW	Code	FSW/MSW
<b>70</b>	70	<b>77</b>	600	<b>87</b>	70/21
<b>71 (200 °)</b>	100	<b>78</b>	700	<b>88</b>	250/76
<b>72</b>	150	<b>79</b>	1000	<b>89</b>	300/90
<b>73</b>	250	<b>85</b>	1200	<b>90</b>	350/100
<b>74</b>	300	<b>80</b>	1500	<b>91</b>	450/140
<b>75</b>	350	<b>81</b>	2000	<b>93</b>	750/225
<b>76</b>	450	<b>82</b>	3500	<b>94</b>	1000/300
				<b>95</b>	1500/450