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**MODEL 40GD10  
 INCLINED TUBE  
 MANOMETER  
 DRAFT GAUGE**

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35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001

## DESCRIPTION

The Meriam Model 40GD10 Inclined Tube Manometer provides accurate measurement of low pressures, drafts, and small differential pressure changes, as in air or gas flow metering. It is available in six ranges and in both left zero and intermediate zero models. This design assures long-time accuracy and repeatability for accurate low pressure measurements. Each gauge is individually factory calibrated before shipment.

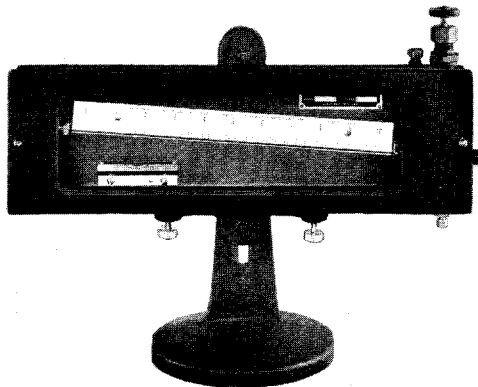
## CONSTRUCTION

The liquid indicating column in the Model 40GD10 Manometer is inclined at an angle. This design greatly expands the vertical height reading range for extremely accurate readings. Through 2 inch range, graduations are 0.01 inches of water pressure using Meriam 827 Red Oil divided over 11 inches of scale. The 3 and 4 inch range have graduations 0.02 inches of water pressure using

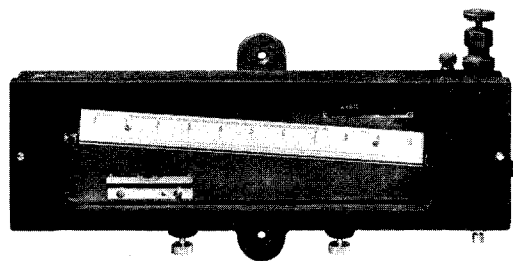
Meriam 827 Red Oil divided over 12 inches of scale. The instrument scale with sharp black graduations on a non-glare, satin-white background is located directly behind the indicating tube. Large numerals at major graduations provide at-a-glance readability. The indicating fluid used is Meriam Red Oil, Sp. Gr. 827 which provides maximum contrast with the scale and graduations. For greater range other Meriam indicating fluids may be used.

Two adjusting screws in the gauge mounting bracket and a double-hairline level simplify accurate levelling of the gauge. The liquid column is then easily set to scale zero. The scale zero is precisely adjusted by a plunger unit which displaces liquid in the instrument well. A Meriam Stream Flow drain valve is a standard feature.

The boro-silicate glass tube is gland packed with viton seals. The transparent viewing window is framed in a sturdy cover which protects the gauge interior from dust. Cover and lightweight cast aluminum body are finished in baked black crackle enamel.



**Model 40GD10WM  
 With Table Mounting Base 912A**



**Model 40GD10WM**

## SPECIFICATIONS

Model: 40GD10  
 Type: Inclined Tube  
 Range: 1/2, 1, 1-1/2, 2, 3, 4 inches H<sub>2</sub>O  
 using Meriam 827 Red Oil  
 Pressure Rating: 100 psig  
 Mounting: Wall, Table  
 (Weather proof construction available in wall mounting style)  
 Indicating Tube & Packing: Glass, Viton  
 Wetted Parts Material: Aluminum, Steel, Glass  
 Scale Finish: White non-glare satin with black graduations  
 Connections: 1/4" NPT

## ACCESSORIES

944A4 Venting Petcock  
 911A Male Hose Nipple  
 913T Plastic Tubing  
 913R Rubber Tubing  
 912A Table mounting stand  
 Valve & Piping Manifold  
 943AC300 Steel Valve & Piping Manifold  
 943AS300 S.S. Valve & Piping Manifold

## FLUIDS AVAILABLE:

Fluid	Nominal Sp. Gr.
Meriam 827 Red Oil	.827
Meriam 100 Unity Oil	1.000
Meriam 175 Blue Fluid	1.75

## Scale Graduations:

Instrument Range	Scale Reading Inches	Standard Scale Graduations
Also available w/raised zero as special scales.	1/2"	0...+0.5 *
	1/2"	-0.1...0...+0.4
	1"	0...+1.0 *
	1"	-0.1...0...+0.9
	1-1/2"	0...+1.5 *
	1-1/2"	-0.5...0...+1.0
	1-1/2"	-0.1...0...+1.4
	2"	0...+2.0 *
	2"	-0.5...0...+1.5
	3"	0...+3.0 *
	3"	-1.0...0...+2.0
	4"	0...+4.0 *
4"	-1.0...0...+3.0	
		SCALE "N" Inches and hundredths of water pressure using Meriam Red Oil Specific Gravity 0.827
		SCALE "O" Inches and fiftieths of water pressure using Meriam Red Oil Specific Gravity 0.827

\*Standard scales, all others are special.

## Fluid Requirements & Instrument Weight

Range Inches of Water (using 827)	1/2"	1"	1 1/2"	2"	3"	4"
Range Inches of Water (using 100)	.605	1.209	1.814	2.418	3.628	4.837
Range Inches of Water (using 175)	1.06	2.12	3.17	4.23	6.35	8.46
Range Millimeters of Water (using 827)	12.7	25.4	38.1	50.8	76.2	101.6
Weight	9#	9#	9#	9#	16#	16#
Fluid Ounces	4	4	4	4	4	4

For Table Mounting add 9 lbs.

## TO ORDER, SPECIFY:

- Quantity
- Model and Mounting Style
- Range
- Scale Graduations
- Indicating Fluid
- Accessories
- Spare Parts

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