



**PRESSURE MEASUREMENT**  
**Refrigeration Gauge**

**Type 3: ( Freon scale )** Stainless steel case with brass internals

**Type 4: ( Ammonia scale )** Stainless steel case with stainless steel internals

Data Sheet P REF3-4

**Service Intended**

Suitable for refrigeration media such as freon and ammonia. Typical applications will be in the refrigeration and air-conditioning industry.

**Case Details**

Nominal Dia: 63, 80, 100 & 160mm diameter.  
 Material: Stainless steel 304

**Bezel**

Standard - **Type R:** S/Steel rolled ring type - tamper proof.  
 Optional - **Type T:** S/Steel bayonet lock, twist type - removable.  
 Material: Stainless steel 304

**Pressure Connections**

Material: Type 3: Brass. Type 4: Stainless steel 316  
 Sizes: 63 & 80mm dia: 1/8" & 1/4" in BSP or NPT or 1/4" flare.  
 Sizes: 100 & 160mm dia: 3/8" & 1/2" in BSP or NPT or 1/4" flare.  
 Position: See "Mounting Configurations".

**Mounting Flange**

Material: Polished stainless steel 304  
 Position: See "Mounting Configurations".

**Pressure Element**

Material: Type 3: Cu-alloy. Type 4: Stainless steel 316.

**Geared Movement**

Material: Clockwork brass or stainless steel.

**Pointer**

Collet: Aluminium or brass  
 Blade: Black aluminium

**Dial**

Material: Aluminium, white with black lettering.

**Window**

Instrument glass or plexiglass.

**Weather Protection**

IP 65 Dust & weather proof.

**Working Pressure**

Steady: Full scale value  
 Fluctuating: 90% of full scale value  
 Short Period: 130% of full scale value  
*For pulsating pressure, the use of an inlet restrictor and/or liquid filling is recommended.*

**Accuracy Class**

63mm & 80mm dia: Class 1.6 ( 1.6% of full scale value )  
 100mm & 160mm dia: Class 1 ( 1% of full scale value )

**Operating Temperature**

Ambient: -20 °C to + 60 °C  
 Medium: +70 °C ( soldered tube ): + 100 °C ( brazed tube )

**Optional Extras**

- Calibration Certificate
- Rubber cover ( for robust handling )
- Customized scale plates ( customer logo, red line, etc )
- Special Dials, other than standard ( dual scale, bar, psi )
- Damped movement ( Vibragauge )
- Single or double electrical contacts ( 100 & 150mm only )
- Colour Coding of dial
- Drag pointer ( maximum set pointer )
- Micro adjustable pointer
- Blow out disc

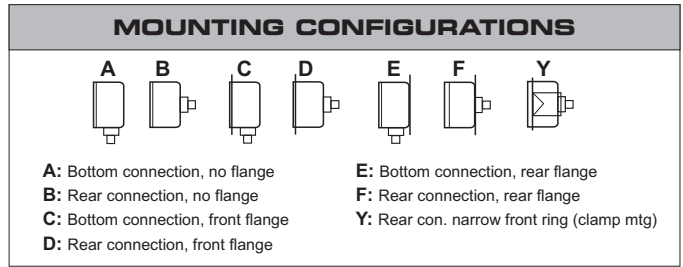


Ammonia gauge



Freon gauge

For dimensional drawing see technical section



<b>STANDARD PRESSURE RANGES</b>					
Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
<b>Freon</b>			<b>Ammonia R717 (NH<sub>3</sub>)</b>		
-100 / 0 / 1250 kPa	200	50	-100 / 0 / 1250 kPa	200	50
-100 / 0 / 2500 kPa	200	100	-100 / 0 / 2500 kPa	500	50
<b>Above pressure scales with corresponding temperature scale as required.</b>			<b>Above scales standard with R 717 ( NH<sub>3</sub> ) temperature scale.</b>		
-100 / 0 / 12.5 bar	2	0.5	-100 / 0 / 12.5 bar	2	0.5
-100 / 0 / 25 bar	5	1	-100 / 0 / 25 bar	5	0.5
<b>Optional Scales</b>			<b>Optional Scales</b>		
Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.			Other equivalent units of pressure or vacuum such as psi and inHG etc. Dual scales, such as kPa / psi, or bar / psi.		
<i>Customized and other scales such as bar / psi / inHG etc. are available on request</i>					

