



**PRESSURE MEASUREMENT**  
**Industrial Use - General Purpose**  
**Type R3: Stainless steel case with brass internals**  
**Type R4: Stainless steel case with stainless steel internals**

Data Sheet P RR3-4

**Service Intended**

Suitable for media such as air, water, oil & gases that do not attack copper alloy or stainless steel parts or will obstruct the pressure system. Typical applications will be in the hydraulic, pneumatic, refrigeration, steam, chemical and food and beverage industry.

**Case Details**

Nominal Dia: 40, 50, 63, 80, 100, 160mm  
 Material: Stainless steel 304

**Bezel**

S/Steel rolled ring type - tamper proof.  
 Material: Stainless steel 304

**Pressure Connections**

Material: Type 3: Brass. Type 4: Stainless steel 316  
 Sizes: 50, 63, 80, mm dia: 1/8" & 1/4" in BSP or NPT  
 Sizes: 100, 160mm dia: 1/4", 3/8" & 1/2" in BSP or NPT  
 (Position: See "Mounting Configurations".)

**Mounting Flange**

Material: Polished stainless steel 304

**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 (*plexiglass recommended for food applications*)

**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**

40mm dia: 2.5  
 50mm, 63mm & 80mm dia: Class 1.6  
 100mm, 160mm dia: Class 1

**Operating Temperature**

Ambient: -20 °C to + 60 °C  
 Medium: +70 °C (*soldered tube*): + 100 °C (*brazed / tig welded tube*) *For live steam use, a syphon tube is recommended.*

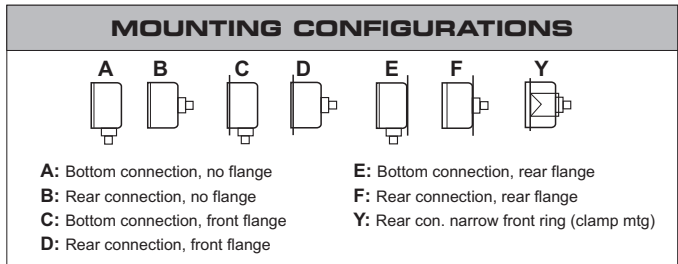
**Optional Extras**

- Calibration Certificate
- Customized scale plates (*customer logo, red line, etc*)
- Special Dials, other than standard (*dual scale, bar, psi*)
- Damped movement (*Vibrageauge*)
- Colour Coding of dial
- Drag pointer (*maximum set pointer*)
- Micro adjustable pointer
- Blow out disc
- Diaphragm seals fitted



**Type R**  
Roll Ring Bezel

For dimensional drawing see technical section



**STANDARD PRESSURE RANGES**

Ranges	Figure Interval	Minor Graduations	Ranges	Figure Interval	Minor Graduations
<b>Pressure</b>			<b>Pressure</b>		
0/2.5 kPa	0.5	0.05	0/6 MPa	1	0.1
0/4 kPa	1	0.1	0/10 MPa	2	0.2
0/6 kPa	1	0.1	0/16 MPa	2	0.2
0/10 kPa	2	0.2	0/25 MPa	5	0.5
0/16 kPa	2	0.2	0/40 MPa	10	1
0/25 kPa	5	0.5	0/60 MPa	10	1
0/40 kPa	10	1	0/100 MPa	20	2
0/60 kPa	10	1			
0/100 kPa	20	2	<b>Vacuum</b>		
0/160 kPa	20	2	-100/0 kPa	20	2
0/250 kPa	50	5	<b>Compound</b>		
0/400 kPa	100	10	-100/0/150 kPa	50	5
0/600 kPa	100	10	-100/0/300 kPa	100	10
0/800 kPa	100	10	-100/0/500 kPa	100	10
0/1000 kPa	200	20	-100/0/700 kPa	100	10
0/1600 kPa	200	20	-100/0/900 kPa	200	20
0/2500 kPa	500	50	-100/0/1500 kPa	500	50
0/4000 kPa	1000	100	-100/0/2400 kPa	500	50

*Customized and other scales such as bar / psi / inHG etc. are available on request*

