Aluminium Case Safety Pattern Pressure Gauges

APPLICATIONS
Gas and Steam in excess of 25 Bar pressure can represent danger if there is a rupture in the Bourdon Tube measuring this gas. To minimize the danger, gauges in this application should be Safety Pattern type, having solid front between Bourdon tube and dial, safety window and blow-out back to allow any blast to release to the rear of gauge. Although there is not necessarily any great risk in the use of gauges for gases at pressure less than 25 Bar, a blow-out disc should be incorporated and the purchaser should have regard to the nature of the gas and the installation conditions and, if necessary, order a gauge of the Safety Pattern type.

STANDARD SPECIFICATION
Aluminium Safety Pattern Gauge with Baffle Wall (Weatherproof to IP54)

Sizes
63, 100, 150, 200, 250 and 300 mm

Case/ Bezel
Aluminium Black Stove Enamelled Finish. Solid front between Bourdon tube and dial. Bezel Brass with Lacquered Finish. (Black Stove Enamelled on 1013 & 1014 Models)

Socket & Element
Brass or 316 Stainless Steel (Ph.Br. or BeCu Element, Range Dependant)

Movement
Brass or Stainless Steel

Blowout Protection
S3 Safety Pattern with Baffle Wall and Blow-out Back

Dial
White Anodised Aluminium (Black Printing)

Pointer
Black Aluminium

Window
Laminated Safety Glass

Traceability
All instruments are individually calibrated and have an unique Serial Number.

Certification available on request
- Certificates of Conformity Traceable to National Standards
- Group Certification (Pressure Test Calibration Statement)
- Point to Point Test Certificate
- BS EN 10204 3.1 Material Certification

Safety
All units are manufactured to comply with EN 837-1. S3 Safety Pattern specification and other regulatory standards including PED 2014/68/EU.

Installation instructions:
Refer to EN 837-2 and our Guidance On Use of Equipment data sheet.

Accuracy class

<table>
<thead>
<tr>
<th>ACCURACY CLASS EN837-1 (Optional)</th>
<th>Higher Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>63mm</td>
<td>1.0</td>
</tr>
<tr>
<td>100 to 300 mm</td>
<td>1.0 (0.6)</td>
</tr>
</tbody>
</table>

0.5% Accuracy on request (Consult Sales)
Higher Ranges on request (Consult Sales)

Over-pressure

<table>
<thead>
<tr>
<th>0 - 100 bar</th>
<th>&gt;100 - 600 bar</th>
<th>&gt;600 - 1600 bar</th>
<th>&gt;1600 - 2500 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25 X FSD</td>
<td>1.15 X FSD</td>
<td>1.10 X FSD</td>
<td>1.10 X FSD</td>
</tr>
</tbody>
</table>

Scale Range
Vacuum / Compound to -1 to 0 to -1 to 24 bar
63mm gauge 0 to 1400 bar
100 to 300 mm gauges 0 to 2500 bar
Or other equivalent units of pressure or vacuum
PED 2014/68/EU limits, GAS Group.1 <1000 bar, GAS Group.2 <3000 bar

Pressure Connection Thread
1/4", 3/8" - 3/4", 1/2" NPT, BSP, BSPT (See High Pressure Options)

High Pressure Options Available (316ss / Monel Only)

Ordering Parameters, Please state the following: SIZE, MODEL NO, SCALE RANGE, CONNECTION, PRESSURE MEDIUM & OPTIONAL EXTRAS

Specifications and dimensions in this leaflet, are subject to change without prior notice.
### Aluminium Case Safety Pattern Pressure Gauges

Surface mounted gauges should be fitted with distance pieces of not less that 3/4" (20mm) long to allow them to be mounted away from wall or panel.

#### MODEL 1011
**SURFACE MOUNTED**

#### MODEL 1012
**DIRECT MOUNTED (STANDARD)**

#### MODEL 1013
**FLUSH MOUNTED SCREW FIXING**

#### MODEL 1014
**FLUSH MOUNTED CLAMP FIXING**

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<table>
<thead>
<tr>
<th>Dim</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
<th>PANEL CUT OUT</th>
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<tbody>
<tr>
<td>2.5&quot; (63mm)</td>
<td>35</td>
<td>11</td>
<td>35</td>
<td>38.5</td>
<td>11</td>
<td>29</td>
<td>21</td>
<td>6</td>
<td>86</td>
<td>76</td>
<td>4.2</td>
<td>65</td>
<td>90</td>
<td>78.1</td>
<td>4</td>
<td>32</td>
<td>70</td>
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<tr>
<td>4&quot; (100mm)</td>
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<td>18</td>
<td>49</td>
<td>70</td>
<td>18</td>
<td>43</td>
<td>32</td>
<td>14</td>
<td>130</td>
<td>118</td>
<td>6</td>
<td>103</td>
<td>134</td>
<td>121</td>
<td>5.2</td>
<td>51</td>
<td>112</td>
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<tr>
<td>6&quot; (150mm)</td>
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<td>18</td>
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<td>92</td>
<td>18</td>
<td>50</td>
<td>32</td>
<td>14</td>
<td>183</td>
<td>168</td>
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<td>193</td>
<td>185</td>
<td>168</td>
<td>5.8</td>
<td>75.5</td>
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<td>8&quot; (200mm)</td>
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<td>219</td>
<td>222.25</td>
<td>5.2</td>
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<tr>
<td>10&quot; (250mm)</td>
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<td>55</td>
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<td>302</td>
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<tr>
<td>12&quot; (300mm)</td>
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<td>56</td>
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<td>17</td>
<td>51</td>
<td>52</td>
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<td>6.5</td>
<td>306</td>
<td>369</td>
<td>345</td>
<td>6.5</td>
<td>153</td>
<td>320</td>
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General Arrangement Dimensions in mm, tol' ± 1mm.