





# VQ500 Series

EU Declaration of Conformity EUD-0066

<b>PRODUCT SERIES:</b>	<b>VQ500 Series</b>	
<b>PRODUCT TYPE:</b>	Miniature Gas Sensing Head	
<b>PRODUCT DESCRIPTION:</b>	The VQ500 Series miniature gas sensing heads are fully certified, flameproof sensor heads containing a low power pellistor pair optimised for the detection of combustible gases or % volume gases in thermal conductivity mode	
<b>DECLARATION:</b>	It is declared under our sole responsibility that the above products conform to the essential Health and Safety Requirements of the ATEX Directive 94/9/EC and is certified as a component under the following EC Type-Examination Certificates	
<b>CERTIFICATES NUMBERS:</b>	<b>Sira 01ATEX1073U IECEX SIR 04.0014U</b>	
<b>ISSUED BY:</b>	Sira Test & Certification Service (Notified Body Number 0518) Rake Lane Eccleston Chester CH4 9JN UK	
<b>HAVE BEEN ASSESSED TO THE FOLLOWING HARMONIZED STANDARDS:</b>	<p><b>EN 60079-0:2012 IEC 60079-0 ed6.0</b> Electrical apparatus for explosive gas atmospheres – General requirements</p> <p><b>EN 60079-1:2014 IEC 60079-1 ed7.0</b> Electrical apparatus for explosive gas atmospheres – Flameproof enclosures “d”</p>	
<b>PRODUCT MARKINGS:</b>	<p style="text-align: center;"><b><u>ATEX</u></b></p> <p style="text-align: center;"> <b>II 2G Ex db IIC Gb I M2 Ex db I Mb</b></p> <p style="text-align: center;"><b>Ta -40°C to +55°C</b></p>	<p style="text-align: center;"><b><u>IECEX</u></b></p> <p style="text-align: center;"> <b>Ex db IIC Gb Ex db I Mb</b></p> <p style="text-align: center;"><b>Ta -40°C to +55°C</b></p>

Richard Lane  
Quality and Operations Manager



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## INSTRUCTIONS SPECIFIC TO HAZARDOUS AREA INSTALLATIONS

(Ref. EU ATEX Directive 94/9/EC, Annex II, 1.0.6)

1. The VQ500 Series Gas Sensing Head is component approved only and may not be used as a stand-alone item in a hazardous area without further protection.
2. The component is only certified for operation in ambient temperatures between  $-40^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$  and should not be used outside this range.
3. The VQ500 Series Gas Sensing Head shall be used in conjunction with apparatus providing an intrinsically safe supply having a maximum output power (PO) not greater than 2.5 W.
4. When this component is utilized in equipment that is intended to be used in group I applications, it shall be suitably protected to ensure that it will withstand an impact energy in excess of the 7 J low risk of impact value specified in EN60079-0:2006 clause 26.4.
5. The VQ500 Series Gas Sensing Head has not been assessed as a safety device (EHSR 1.5).
6. There are no user-serviceable parts in the component.
7. The end-user/installer should be aware that the certification of the VQ500 Series Gas Sensing Head relies on the following materials used in its construction, which are suitable for most common applications:

Enclosure	Stainless Steel
Sinter	Stainless Steel
Bushing	Epoxy resin

In accordance with the Note in EN60079-0:2006 Clause 6.1(a), the end-user/installer shall inform the manufacturer of any adverse conditions that the VQ500 Series Gas Sensing Head may encounter. This is to ensure that the VQ500 Series Gas Sensing Head is not subject to conditions that may cause degradation of these materials.