

Crowcon Technical Note

Document Reference: XIQ007
Document applies to: XgardIQ – Pellistor sensors, covering various gases
Release Date: 6th May 2021
Subject: XgardIQ High Temperature Operations

This technical note applies to Xgard IQ pellistor (%LEL) sensor modules used with the following gases...

- Methane CH₄, sensor module part **XIQ-AA**
- Propane C₃H₈, sensor module part **XIQ-AB**
- Pentane C₅H₁₂, sensor module part **XIQ-AC**
- Hydrogen H₂, sensor module part **XIQ-AF**
- LPG, sensor module part **XIQ-BW**
- Ethanol C₂H₅OH, sensor module part **XIQ-BD**
- Benzene C₆H₆, sensor module part **XIQ-BE**
- Heptane C₇H₁₆, sensor module part **XIQ-BF**
- Acetylene C₂H₂, sensor module part **XIQ-CL**



As part of a rigorous test programme, we have noted that operation of an XgardIQ, with pellistor based sensor attached, at the temperature limit of 75°C can cause the transmitter unit to issue a temperature warning. It will continue to detect gas at these temperatures but is causing thermal stress to some electronic components.

Solution

Where sensor operation is required right up to the limit of 75°C, then it is recommended that the sensor is installed with the Remote Sensor Assembly and the Transmitter is sited in a cooler location (less than 70°C).

The Xgard IQ Remote Sensor Assembly part numbers are: -

- S012325 - Remote Sensor Assembly (5m cable)
- S012331 - Remote Sensor Assembly (15m cable)



All other types of sensor have a lower temperature limit and transmitter temperature warnings are not observed.

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