

EMC TEST CERTIFICATE

York EMC Services Ltd
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UKAS Testing Number 1574

Issued to: -	Analox Sensor Technology Ltd 15 Ellerbeck Court Stokesley Business Park North Yorkshire TS9 5PT	Project No. C3931
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Electromagnetic Compatibility Tests were performed on the apparatus as detailed: -

Description	AX60 + Data Output Module		
Part No	AX60omqaxx		
Serial Number	Proto 1s		
Mode of Operation	Powered via mains PSU providing RS485 and 4-20mA data display module		
Date received	23 rd March 2018	Dates Tested	24 th , 26 th , 28 th and 29 th March 2018
Specification/s	EN50270:2015		



The apparatus to which this certificate relates was tested against the above specifications. Full results are retained on file at York EMC Services Castleford.

Tests marked "Not UKAS Accredited" in this certificate are not included in the UKAS Accreditation Schedule for our laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

EUT Submitted

These results apply only to the particular EUT submitted, in the configuration used and in the mode of operation tested.

Certificate No: -	12788TC1	Job No: -	C3931	Date: -	4 th May 2018	Page 1 of 3
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Tested by: -  Mr D Horry: Senior EMC Technician	Approved signatory:-  M Nicholson BEng (Hons) Laboratory Technical Manager
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Test Certificate Form Issue 1



1574



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Tests Referenced

Emissions

EN50270:2015 Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

Test	Level	Result
<p>Conducted emissions, AC mains port EN55016-2-1: 2009 (Dated Reference) Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2009).</p>	<p>0.15 to 0.5MHz 66-56dBμV QP 0.5 to 5MHz 56dBμV QP 5 to 30MHz 60dBμV QP 0.15 to 0.5MHz 56-46dBμV AV 0.5 to 5MHz 46dBμV AV 5 to 30MHz 50dBμV AV</p>	<p>Pass</p>
<p>Radiated emissions EN55016-2-3: 2006 (Dated Reference) Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements (CISPR 16-2-3:2010).</p>	<p>30-230MHz 40dBμV/m 230-1000MHz 47dBμV/m</p>	<p>Pass</p>
<p>EN61000-3-2:2013 Harmonic emissions</p>	<p>Class A</p>	<p>Pass</p>
<p>EN61000-3-3:2014 Flicker</p>	<p>N/A</p>	<p>Pass</p>

Tests Referenced

Immunity

EN50270:2015 Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

Test	Level	Result
EN61000-4-2: 2009 (Dated Reference) Test equipment calibrated to EN61000-4-2:2009 Part 4-2. Testing and measurement techniques – Electrostatic discharge immunity test	±8kV Air ±4kV Contact	Pass
EN61000-4-3: 2006 (Dated Reference) Part 4-3. Testing and measurement techniques – Radiated, radio frequency, electromagnetic field immunity test	3V/m 80-1000MHz 3V/m 1400-2000MHz 1V/m 2000-2700MHz 1kHz 80% AM	Pass
EN61000-4-4: 2012 (Dated Reference) Part 4-4. Testing and measurement techniques – Electrical fast transient/burst immunity test	±1kV AC power ports ±0.5kV Signal and control	Pass
EN61000-4-5: 2006 (Dated Reference) Test equipment calibrated to EN61000-4-5:2006 Part 4-5. Testing and measurement techniques – Surge immunity test	±1kV AC power ports Line to Line ±2kV AC power ports Line to Earth ±1kV Signal Line to Earth	Pass
EN61000-4-6: 2014 (Dated Reference) Part 4-6. Testing and measurement techniques - Immunity to conducted disturbances induced by radio frequency fields.	3Vrms AC power, 3Vrms Signal and control 150kHz-80MHz 1kHz 80% AM	Pass
EN61000-4-11:2004 (Dated Reference) Part 4-11. Testing and measurement techniques - Immunity to Voltage dips and interruptions.	60% for 10 cycles @50Hz 30% for 25 cycles @50Hz 100% for 250 cycles @50Hz 100% for 300 cycles @60Hz	Pass

Modifications incorporated during testing: None.

-----End of Certificate-----