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Certificate Number: 7037  
 Issue Number: 1  
 Date of Issue: 15-02-2016  
 Reason for Re-issue: N/A



<b>Date Samples Arrived</b>	25-01-2016	<b>Requested by:</b> Stephen Quarrell BEKA Associates Ltd Old Charlton Road Hitchin Hertfordshire SG5 2DA
<b>Date Testing Started</b>	26-01-2016	
<b>Date Testing Completed</b>	27-01-2016	
<b>Customer Purchase Order No:</b>	026627	

**Description of equipment under test:**  
 4 X 'E' series panel mounted enclosures (96 x 48 mm and 144 x 72 mm) for the BAxx7E, BAxx8E and Advisor A9x product ranges

**Serial/Identity Numbers:** *Identified by PARC as:* **Dust 1 Large enclosure (BAxx8E – 144 x 72mm)**  
**Dust 2 Small enclosure (BAxx7E – 96 x 48mm)**  
**Water 1 Large enclosure (BAxx8E – 144 x 72mm)**  
**Water 2 Small enclosure (BAxx7E – 96 x 48mm)**

Test Performed:		In accordance with:	
Process 1	IP6X – Category 1 Dust Ingress Test	UKAS	<ul style="list-style-type: none"> <li>8 hours' duration as defined by initial vacuum survey</li> <li>-20mbar negative pressure as requested by the customer</li> <li>Initial inspection by use of a 1mm probe</li> </ul>
			<b>BS EN 60529:1992 + A2:2013</b>
Process 2	IPX6 – Water Ingress Test	UKAS	<ul style="list-style-type: none"> <li>12.5mm Nozzle diameter</li> <li>100 L/minute flow rate</li> <li>2.5-3m spray distance</li> <li>3-minute duration proportionally divided over the 2 end faces (2 smallest faces, one of which housed an airline) and front face (3 faces specified by the customer).</li> <li>Maximum 5°C temperature fluctuation between sample and water</li> <li>92 seconds spray duration to Front face (51% of total sample surface area)</li> <li>44 seconds spray duration to End faces (24.5% of total sample surface area (X2 faces))</li> </ul>
			<b>BS EN 60529:1992 + A2:2013</b>

**Report Summary:**  
 The samples were subjected to the test sequence outlined above.  
 The customer requested a torque setting of 0.20Nm be applied to the panel mounting clamps of the instruments inside each enclosure. A PARC engineer checked all the samples torque settings as requested by the customer, prior to testing.  
 Upon completion of the test sequence; no obvious signs of dust ingress were noted to the samples identified by PARC as 'Dust 1' and 'Dust 2'. It was also noted that the samples identified by PARC as 'Water 1' and 'Water 2' showed no obvious signs of water ingress. It was therefore deemed that the front of both the 96 x 48mm and the 144 x 72mm instrument enclosures complied with the requirements of an IP66 rating to BS EN 60529:1992 + A2:2013.  
 The samples were returned to customer for further examination.

**Disposal of Sample**  
 On completion of test the samples were returned to customer by courier on the: 28-01-2016

**Distribution:**  
 1. Stephen Quarrell  
 2. PARC Ltd File

Test Engineer Name: H. Cloake  
 Signature: *[Signature]*

Approved by: Name: S. Wort  
 Signature: *[Signature]*  
 Job Title: Senior Test Engineer

Results reported in this test report relate only to those samples tested  
 Any opinions or interpretations expressed within this report, together with tests marked 'Non UKAS' are not included in the UKAS Accreditation Schedule for this Laboratory.