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QA: OBL

EMC specification of Baumer A/S product no. 86 30-511 and, no. 86 30-611, BattTemp

1. Introduction

2. The product

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4. Test plan

5. Definition of error criterions

1. Introduction

1.1 Aim:

To set up minimum requirements to meet the protection requirements in the EMC directive EEC 89/336 according to article 10.2.

2. The product

2.1 The product:

BattTemp, battery powered thermometer. For mounting in a Baumer \varnothing 80 housing, with connection for Pt 100 sensor element.

2.2 Type:

The product is available in two versions, with Baumer catalogue no., as well as the OEM products hereof.

86 30-511: BattTemp, standard version.

86 30-611: BattTemp, EEx certified version.

2.3 Environmental use:

Industry - light industry.

2.4 Description of the product:

Construction:

The product is built up of circuit boards, built into a plastic cabinet. The unit contains analogue circuits, low-energy DC/DC converter and microprocessor.

The unit has the following ports:

- Connection for Pt 100 (two terminals).

Adjustments:

The unit is adjusted from factory. The user can put in an offset up to $\pm 9.9^{\circ}\text{C}$ via front panel keys.

Accuracy:

According to the data sheet the inaccuracy of the unit is max. $\pm 0.3^{\circ}\text{C}$. At continuous noise exposure an inaccuracy up to $\pm 1.0^{\circ}\text{C}$ can be accepted.

3. Relevant standards

3.1 Emission: EN 61326

As the module only contains low-energy oscillating circuits the test is not estimated to be relevant.

3.2 Immunity: EN 61326

- ENV 50140: HF field, 80 - 1000 MHz, 80% AM, 10 V/m however, 3 V/M on IBU frequencies.
- EN 61000-4-2: ESD discharge 8/4 kV.

4. Test plan

- 4.1 The unit is tested during normal working, mounted in a $\varnothing 80$ housing, with firm mounted Pt 100 sensor. During the test run the display indication is observed.

5. Error criterions

5.1 Criterion A:

Max. deviation from nominal is $\pm 1^{\circ}\text{C}$.

- 5.2** **Criterion B:**
No requirements during the test run.
After the test run the module shall operate normally.
- 5.3** **Criterion C:**
Not relevant.

DECLARATION OF CONFORMITY (per DS/EN 45014 ANNEX A)

We,

Baumer A/S
Jacob Knudsens Vej 14
8230 Aabyhøj
Denmark

Tel: +45 89 31 76 11

declare under our sole responsibility that the product

Product Name: BattTemp**Product Type: 8630-511 and 8630-611, as well as
the OEM products of these types**to which this declaration relates is in conformity with the following standards
or other normative documents:**EN 61 326 Issue 1. 1997 incl. Amendment 1 1998-05 and Amendment 2 May 2001**European EMC standards for emission and immunity, following the provision
of the EMC directive 89/336/EEC.Date: 1/2 2007 Sign.: Kurt Møller Jensen

Technology manager
Kurt Møller Jensen