



Ljubljana, 27. May 2014

To whom it may concern

## **Invitation to participate in intercomparison with a non-contact thermometer**

The Slovenian National Standard Laboratory for Thermodynamic Temperature University of Ljubljana, Faculty of Electrical Engineering, Laboratory of Metrology and Quality (UL/FE-LMK) is inviting your calibration laboratory to participate in an interlaboratory comparison.

1. The circulating item will be Minolta Land Cyclops non-contact thermometer type 300 AF, covering range from  $-30\text{ }^{\circ}\text{C}$  to  $1000\text{ }^{\circ}\text{C}$ , emissivity adjustment range: 0.10 to 1.00 in 0.01 increments, spectral response:  $8\text{ }\mu\text{m}$  to  $13\text{ }\mu\text{m}$ , optical system: focusable mirror system;  $f=60\text{ mm}$ , target size (Spot Diameter):  $9\text{ mm}$  dia. at  $500\text{ mm}$ , autofocus range:  $500\text{ mm}$  to infinity, temperature range:  $-30\text{ }^{\circ}\text{C}$  to  $1000\text{ }^{\circ}\text{C}$ , Temperature Display Resolution:  $-30\text{ }^{\circ}\text{C}$  to  $199.9\text{ }^{\circ}\text{C}$ :  $0,1\text{ }^{\circ}\text{C}$ ;  $200\text{ }^{\circ}\text{C}$  to  $1000\text{ }^{\circ}\text{C}$ :  $1\text{ }^{\circ}\text{C}$ ; Expected uncertainty for measurements below  $0\text{ }^{\circ}\text{C}$ :  $\pm 1,0\text{ }^{\circ}\text{C}$ , for measurements  $0\text{ }^{\circ}\text{C}$  to  $200\text{ }^{\circ}\text{C}$ :  $\pm 0,5\text{ }^{\circ}\text{C}$ , for measurements  $200\text{ }^{\circ}\text{C}$  to  $1000\text{ }^{\circ}\text{C}$   $\pm 1,0\text{ }^{\circ}\text{C}$  or worse.

The purpose of the intercomparison is to compare the results of the participating laboratories during calibration of a radiation thermometer. The participating laboratories are encouraged to use their own calibration procedures.

The participants will receive an accredited report, which will contain at least summary of the all measurements, assigned values, uncertainties of assigned values and evaluation of the performance. The evaluation of the measurement results will be made on the basis of  $E_n$  number.

The price for participation is 690 EUR (excluding VAT). In the price is included transport and insurance costs from one participant to another. Each participant is responsible for custom procedure of importing and exporting goods in their respective country, if necessary (possibly by using ATA CARNET).

Starting date for the intercomparison (depending on number of participating laboratories) is expected in September 2014.

The UL/FE-LMK is accredited by The Dutch Accreditation Council (RvA) for providing intercomparisons under the code R-014. This means that the intercomparison will be in full accordance with the demands in ISO/IEC 17043:2010.

If you are interested in participating in the intercomparison or have any further enquiry, please contact the co-ordinator of intercomparison by the 30<sup>th</sup> of June 2014.

Sincerely yours,

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