

## Co-operation profile details from Enterprise Europe East of England

### 10 GB 41n8 3G61 - A handheld infrared thermometer that helps combat Legionnaires disease

#### Technology collaboration OFFER

#### Abstract

A UK company offers a non-contact thermometer that measures the temperature of metal pipes, plastic storage vessels etc without touching them - to make sure they are within an acceptable temperature range to limit the growth of this deadly bacteria. With hundreds already being used in UK public buildings, the easy to operate thermometers have a built in laser pointer so there is no guesswork in where the instrument is aimed. The company is seeking additional industrial/commercial partners.

#### Description

Legionnaires disease is a public health threat and many local authorities/councils use the Approved Code of Practice L8 to guide them in combating this threat. Since Legionella Pneumophila bacteria grow in water, public buildings can harbour these deadly bacteria in their water systems. To inhibit the growth of these bacteria it is recommended the water systems in public buildings must be kept within a certain temperature range - cold water below 20°C and hot water above 60°C.

Anyone involved in building maintenance will understand that measuring water temperatures with a contact temperature probe is not always easy. Many pipes are in difficult to reach places or run overhead, whilst many water holding tanks in buildings are overhead and visible but not easy to reach. This is where the new non-contact thermometer can really help.

One of the features that make this product particularly useful is that it is able to measure the temperature of a variety of different materials, whether it is metal pipes, plastic storage vessels or the surface of water itself, without touching them. The thermometer can measure the temperature of these objects from close range or from a distance. It also has a built in laser pointer so there is no guesswork in where the instrument is aimed.

The handheld IR Thermometers are cleverly designed to fit into ones pocket like a pen - the ideal tool for all building services professionals. Checking temperatures could not be easier. You simply aim the built-in laser pointer highlights the target press the SCAN button and read the temperature immediately on the digital display. No need to focus and no special training.

#### Innovative Aspects:

The new infrared temperature sensing technology uses advanced optics and detection system to produce a high performance low cost thermometer. The handheld unit has a unique ultra compact design plus laser sighting for small or distant targets and adjustable emissivity. The top of the range unit also provides data logging of up to 100 readings and PC-based data acquisition via USB. The main advantages of both handheld and fixed units include:

- " Wide temperature range -20 to 500°C
- " High accuracy and repeatability
- " Displays maximum, minimum, average and instantaneous temperatures

The handheld unit can be LOCKED into the ON position if continuous measurements are required. The last measured value can also be held for those situations where it is not easy to see the display whilst measuring.

#### Target partner expertise sought:

The UK Company is flexible in its approach to partnerships. The company is looking for both commercial and industrial partners active in public buildings/water systems market. The offer includes specialist know-how/technology transfer, and a skilled product application and development team. The collaboration sought includes one or more of the following:

- " Technical Collaboration (e.g. application specific development)
- " Commercial Agreement with Technical Assistance

Country of origin: United Kingdom

Listed under: Measurement, Testing & Standards \ Environment

#### Key dates:

Profile created on: 13/01/2010

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