

Automotive test chamber features Rotronic- Transmitter

Performance surpasses expectation!

Clive Hurley Environmental Engineering are one of the world's leading manufacturers of environmental test chambers. A recent installation at the UK's leading independent automotive development centre, LTC, featured a Rotronic I-2000 industrial humidity and temperature transmitter.

Traditionally, Clive Hurley's have employed wet and dry bulb psychrometry for humidity measurement duties, but because of the wide operating range of the LTC chamber, a Rotronic I-2000 transmitter was installed.

Andrew Hurley, Director commented:

„Obviously above 100°C and below 0°C, wet and dry bulb humidity measurement is not practical, and our customer needed to know the humidity value over the chambers full working range. The Rotronic I-2000 offered the widest available temperature range, so it naturally became our preferred choice. Once installed, we were really impressed with the accuracy, stability, and response times it provided.”

The LTC test chamber is designed to cope with vehicles up to the size of a truck tractor unit, with internal dimensions of 3.3 x 4.3 x 6.3 length, and a load capacity of 8 tonnes! The temperature range is -40...+120°C, with a humidity capability of up to 99%rh over the temperature range of 10...70°C. In addition, full solar capabilities are incorporated, so that an extensive range of 'real world' conditions can be reproduced. One company who have already made use of the LTC chamber are sports car manufacturer TVR (shown in picture).

The Rotronic I-2000 transmitters are available in a wide range of configurations to suit almost any application. Maximum measurement ranges are 0...100%rh and – 50...+200°C, with operational exposure to - 75°C not affecting the sensors. The probe of the I-2000 can be seen at the top/rear of the chamber.

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