OUTDOOR HUMIDITY

- **Operates from -60 to +70C**
- **Two percent accuracy**
- **Long Term Reliability**



MODEL: 1.1000.51...

These humidity transmitters are the type used on unattended remote weather stations across Canada. Even in arctic conditions they perform accurately and without problem. In energy management projects with hundreds of points it is normal to have only one outdoor humidity sensor. If that sensor is not accurate then energy costs may rise and building comfort may suffer. The trouble free, accurate, service year after year of these transmitters can quickly justify their higher cost.

PRINCIPLE OF OPERATION

Specially prepared human hair is used as a sensor. These hairs are specially treated to make them react quickly to changes in humidity. The individual hairs which combine to make the measuring element lengthen when the humidity increases and contract when the humidity decreases. The change in length is transferred to the rotary axis of a potentiometer. This technique for humidity measurement has been successfully used for many years but still provides today the most accurate, stable measurement of humidity at a reasonable cost. Solid state humidity sensors, although cheeper do not offer the long term stability or the low temperature capabilities of this transmitter.

APPLICATION

In energy management applications this transmitter is normally mounted in a make-up air plenum just inside the monitored building. This protects it from snow, ice and rain while still providing monitoring of outside conditions. If this is not possible an outdoor weather shield or weather hut are available.

ORDERING DATA

Model 1.1000.51.512:	0-2000 ohms output
Model 1.1000.51.515-420:	2 wire 4-20 mA

TECHNICAL DATA

Output	0 to 2000 ohms non-linear or 4-20mA in 2-wire technology
Accuracy	+/-2.%
Operating Range	10...100% r.H / -60 to +70C
Calibration Range	0...100% r.H.
Enclosure	stainless steel

ENERCORP instruments ltd

25 Shorncliffe Rd, Toronto, ON, M9B 3S4 Tel 1(800)ENERCORP or (416)231-5335 Fax 1(877)ENERCORP or (416)231-7662

Visit our on-line catalogue at www.enercorp.com *our e-mail address is info@enercorp.com*