

Features

- Small
- Non conductive ABS plastic
- Low cost
- Accurate
- Infrared Non-contact
- Patent protected
- Continuous 24/7 thermal monitoring
- No external power
- Lifetime calibration
- Lifetime warranty*
- Can install INSIDE electrical enclosures
- Fast easy install
- Detects faults BEFORE they fail

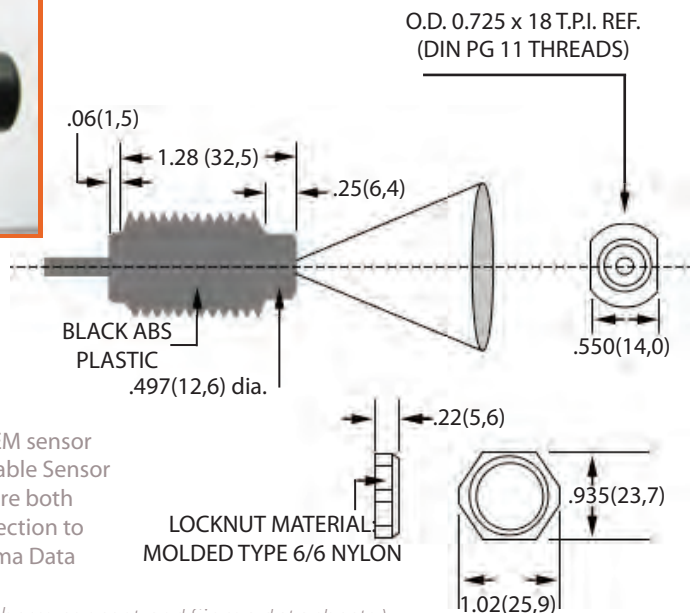
Uses

As well as 24/7 monitoring of critical electrical equipment these sensors can be used to monitor pumps, motors, bearings, gearboxes, air/refrigeration units, steam traps, rotating or vibrating equipment, in fact anything which shows potential failure through an increase (or decrease) in heat.



Fitted sensors

Non contact Infrared sensor IRt/c.EM®



The infrared IRt/c.EM sensor & the Exertherm Cable Sensor (see reverse side) are both designed for connection to the Exertherm Sigma Data Acquisition card.
(See separate Exertherm concept and Sigma data sheets.)

TECHNICAL DATA

Product:	Exertherm Non contact infrared temperature sensor (IRt/c.EM®)
Model:	
Specification:	Provides mV output signal. Temp rise above ambient (sensor body temp)
Sensing range:	0 > 300°C
Linear range selection:	Full range via data acquisition board
Field of view:	Optional 1:1, 3:1, 7:1, 10:1
Air purge:	None
Power requirements:	None
Accuracy:	+/- 2% or 1°C of nominal target value (0.9 emissivity)
Repeatability:	1°C
Ambient temp co-efficient:	0.04% of reading/ °C
Compensation range:	Complies with ASTM standard 90-200°F 27-93°C
Case temperature range:	0-70°C
Response time:	150 ms
Resolution:	0.0001°C
Spectral response:	6.5 > 14 microns
Housing:	ABS plastic threaded
Sealing:	Hermetic air/water tight exceeds all applicable NEMA ratings
Output cable (4mtr):	Twisted shielded pair Belden 9451

For further information

European Sales Office
Pastoor Clercxstraat 26, 5465 RH Veghel
Netherlands

T +31 (0)413 37 65 99 F +31 (0)413 37 93 10
E info@exergeneurope.com W www.exergeneurope.com

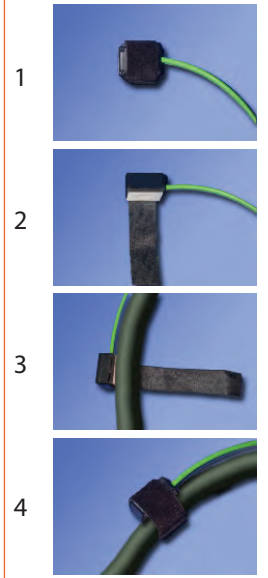
Features

- Small
- Non conductive plastic housing
- mV output
- Low cost
- Accurate
- No external power required
- Straps to various size cable
- Continuous 24/7 thermal monitoring
- Lifetime warranty
- Fast easy install
- Can install INSIDE electrical enclosures
- Patent protected
- Detects faults BEFORE they fail
- Easy integration to BMS/SCADA via Sigma data card



Exertherm Cable sensors installed

Easy to fit



Exertherm Air Temp Sensor

CABLE/AIR SENSOR TECHNICAL DATA

Product:	Exertherm cable sensor & Air temperature sensor
Specification:	Provides mV output
Sensing range:	0 > 300°C (572°F)
Air purge:	None
Power requmnts:	None
Accuracy:	+/- 2% or 1°C (2°F) of nominal target value
Repeatability:	1°C (2°F)
Operating Amb:	>40°C (105°F)
Resolution:	0.0001°C
Housing:	Non conductive plastic
Output cable:	4 mtr
Dimensions:	
Cable:	L=33mm, W=24mm, D=17mm
Air:	L=70mm, W=70mm, D=25mm



For further information

European Sales Office
 Pastoor Clercxstraat 26, 5465 RH Veghel
 Netherlands

T +31 (0)413 37 65 99 F +31 (0)413 37 93 10
 E info@exergeneurope.com W www.exergeneurope.com