



EXERGEN

Infrared Temperature Sensors

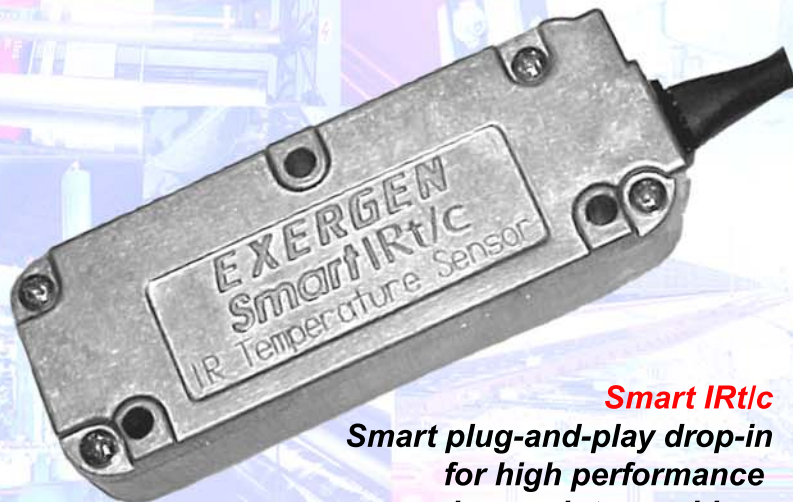
Production *SPEED!* **At Lowest Possible Cost**



micro IRt/c

World's smallest and lowest priced, self-powered IR sensor

ACTUAL SIZE



Smart IRt/c

Smart plug-and-play drop-in for high performance heavy duty machines

Leave Competition in the Dust

With our proven **SPEEDBOOST** methods and latest IRt/c™ sensors controlling your thermal process, you can dramatically increase the throughput rate in your production machinery.

With this new IR technology you also get the **lowest cost** IR sensors ever.

NEW!

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IRt/c™ Infrared Temperature Sensors

Leave your competition in the dust. With our proven **SPEED BOOST** methods and latest IRt/c sensors controlling your thermal process, you can dramatically increase the throughput rate in your production machinery. With this new IR technology you also get the **lowest cost IR sensors ever.**

The **EXERGEN** team **SPEEDBOOST Roster**



	micro IRt/c	Standard IRt/c	Smart IRt/c
ACCURACY	Excellent for specified target temperature range for each model	Excellent for specified target temperature range for each model	Full microprocessor powered accuracy over wide target and ambient temperature ranges
EASE OF USE	<ul style="list-style-type: none"> No power required Need t/c input device Some knowledge of t/c's High impedance 	<ul style="list-style-type: none"> No power required Need t/c input device Some knowledge of t/c's Moderate impedance 	<ul style="list-style-type: none"> Power required (12 or 24VDC) No t/c input device needed No special knowledge of t/c's No impedance issues
SENSING RANGE	0 to 975 °F (-18 to 524 °C) over 8 models	-50 to 3210 °F (-45 to 1766 °C) over 10 models	32 to 482 °F (0 to 250 °C) for each model
TARGET TEMPERATURE RANGE FOR BEST ACCURACY	± 36 °F (±20 °C) from calibration point (typical)	± 45 °F (±25 °C) from calibration point (typical)	32 to 482 °F (0 to 250 °C)
AMBIENT TEMPERATURE RANGE	-40 to 212 °F (-40 to 100 °C)	-40 to 185 °F (-40 to 85 °C)	32 °F to 158 °F (0 to 70 °C)
SPECTRAL RESPONSE	5.5 to 20 µm	6.5 to 14 µm 2 to 20 µm 0.1 to 5 µm (LoE for metal targets)	5.5 to 20 µm other specialized spectral responses available
SIZE/CONSTRUCTION	2.5 x 0.6 cm Dia. Stainless steel tubing Exceeds NEMA 4X, IP 67 intrinsically safe, and CE rated	4.4 x 1.3 cm Dia. Stainless steel tubing Exceeds NEMA 4X, IP 67 intrinsically safe, and CE rated	8.9 x 3.2 x 1.9 cm Heavy duty alloy casting With air purge: NEMA 3S, IP 64, CE rated
RELATIVE COST	~0.5	~1.0	~1.4
AIR PURGE	YES (optional)	YES (optional)	YES (standard)
OPTICS (DISTANCE:SPOT)	~1:2	From 1:1 to 100:1 and specialized focused optics available	3:1 20:1 Available August 2003
OUTPUT	K type thermocouple	All standard thermocouple (J,K, etc)	0-5V, 0-10V, 4-20mA, and RS232
RESPONSE TIME	50 msec time constant (typ)	100 msec time constant (typ)	250 msec up-date (max)
IMPEDANCE	Typical 20 kohms	Typical 3 kohms	Low – see specs
CABLE	Unshielded thermocouple, duplex insulated, type K	Twisted, shielded, pair of base thermocouple material and unshielded PVC extension grade	5 conductor, tinned copper, twisted pair, polypropylene insulated, with shield wire
# OF AVAILABLE MODELS	8+	300+	26+

YOUR LOCAL SALES REP/DISTRIBUTOR IS:

Increasing your production throughput, at an affordable cost

Visit www.exergen.com (Industrial Division) for up to date detailed specifications on all products, and articles on the **SPEEDBOOST** methods!!