

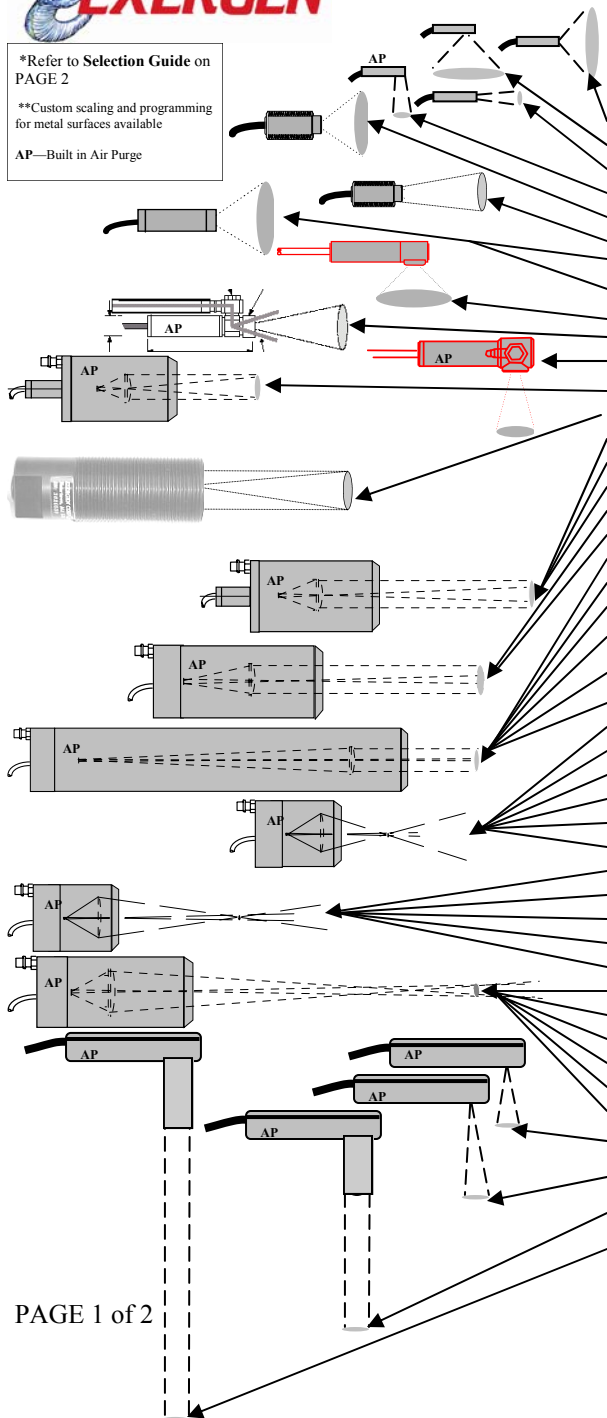


*Refer to Selection Guide on PAGE 2

**Custom scaling and programming for metal surfaces available

AP—Built in Air Purge

IRt/c™ Infrared Sensors Short Form Model Selection



| Model (t/c type, analog, or digital output) | Temperature Range °F | Temperature Range °C | Spot Size (min. spot size) | Target Surface |
|---|----------------------|----------------------|----------------------------|----------------|
| micro (K only) | 0 to 975* | -18 to 524* | Distance/0.5 (3 mm) | Nonmetal |
| micro.SV (K only) | 0 to 975* | -18 to 524* | Distance/0.5 (3 mm) | Nonmetal |
| micro.4 (K only) | 0 to 975* | -18 to 524* | Distance/4 (3 mm) | Nonmetal |
| micro.4SV (K only) | 0 to 975* | -18 to 524* | Distance/4 (3 mm) | Nonmetal |
| .01 (J,K,E,T) | -50 to 550* | -45 to 290* | Distance/1 (8 mm) | Nonmetal |
| .03 (J,K,E,T) | -50 to 550* | -45 to 290* | Distance/3 (6 mm) | Nonmetal |
| Standard (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/1 (8 mm) | Nonmetal |
| .1X (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/1 (8 mm) | Nonmetal |
| .SV (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/1 (8 mm) | Nonmetal |
| .3X (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/3 (6 mm) | Nonmetal |
| .3SV (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/3 (5 mm) | Nonmetal |
| .5 (J,K,E,T) | -50 to 1200* | -45 to 650* | Distance/5 (20 mm) | Nonmetal |
| .JR-10 (K only) | -50 to 550* | -45 to 290* | Distance/10 (20 mm) | Nonmetal |
| .10 (K only) | -50 to 1200* | -45 to 650* | Distance/10 (20 mm) | Nonmetal |
| .10A-HIE (J,K) | -50 to 2500 | -45 to 1370 | Distance/10 (20 mm) | Nonmetal |
| .10A-LoE (J,K) | 500 to 2500 | 260 to 1370 | Distance/10 (20 mm) | Metal |
| .20A-HIE (J,K) | 500 to 3000 | 260 to 1650 | Distance/20 (20 mm) | Nonmetal |
| .20A-LoE (J,K) | 1000 to 3500 | 540 to 1930 | Distance/20 (20 mm) | Metal |
| .100A-HIE (R,S) | 1000 to 5000 | 540 to 2760 | Distance/100 (20 mm) | Nonmetal |
| .100A-LoE (R,S) | 1500 to 5000 | 820 to 2760 | Distance/100 (20 mm) | Metal |
| .2AXLF-HIE (R,S) | 1100 to 3500 | 590 to 1930 | Distance/13 (1.8 mm) | Nonmetal |
| .2AXLF-LoE (R,S) | 2200 to 3500 | 1200 to 1930 | Distance/13 (1.8 mm) | Metal |
| .4AXLF-HIE (R,S) | 900 to 3500 | 480 to 1930 | Distance/13 (4.8 mm) | Nonmetal |
| .4AXLF-LoE (R,S) | 1100 to 3500 | 590 to 1930 | Distance/13 (4.8 mm) | Metal |
| .2/15ACF-HIE (J,K) | 0 to 2500 | -18 to 1370 | Distance/2 (2 x 15 mm) | Nonmetal |
| .2/15ACF-LoE (J,K) | 500 to 2500 | 260 to 1370 | Distance/2 (2 x 15 mm) | Metal |
| .4ACF-HIE (J,K) | 0 to 2500 | -18 to 1370 | Distance/2 (4 mm) | Nonmetal |
| .4ACF-LoE (J,K) | 600 to 2500 | 320 to 1370 | Distance/2 (4 mm) | Metal |
| .8ACF-LoE (J,K) | 300 to 2500 | 150 to 1370 | Distance/2 (8 mm) | Metal |
| .10/38AULF-HIE (J,K) | 0 to 2500 | -18 to 1370 | Distance/13 (10x 38 mm) | Nonmetal |
| .2/18AMF-HIE (J,K) | 0 to 2500 | -18 to 1370 | Distance/4 (2 x 18 mm) | Nonmetal |
| .2/18AMF-LoE (J,K) | 600 to 2500 | 320 to 1370 | Distance/4 (2 x 18 mm) | Metal |
| .6AMF-HIE (J,K) | 0 to 2500 | -18 to 1370 | Distance/4 (6 mm) | Nonmetal |
| .6AMF-LoE (J,K) | 700 to 2500 | 370 to 1370 | Distance/4 (6 mm) | Metal |
| .12AMF-LoE (J,K) | 400 to 2500 | 200 to 1370 | Distance/4 (12 mm) | Metal |
| .2/15ALF-HIE (J,K) | 700 to 3000 | 370 to 1650 | Distance/5 (2 x 15 mm) | Nonmetal |
| .2/15ALF-LoE (J,K) | 1200 to 3500 | 650 to 1930 | Distance/5 (2 x 15 mm) | Metal |
| .4ALF-HIE (J,K) | 700 to 3000 | 370 to 1650 | Distance/5 (4 mm) | Nonmetal |
| .4ALF-LoE (J,K) | 1300 to 3500 | 700 to 1930 | Distance/5 (4 mm) | Metal |
| .7ALF-HIE (J,K) | 300 to 3000 | 150 to 1650 | Distance/5 (7 mm) | Nonmetal |
| .7ALF-LoE (J,K) | 900 to 3500 | 480 to 1930 | Distance/5 (7 mm) | Metal |
| SmartIRt/c.3 (4-20mA, 0-5V, 0-10V, RS232) | 32 to 1832 * | 0 to 1000 * | Distance/3 (3 mm) | Nonmetal ** |
| SmartIRt/c.5 (4-20mA, 0-5V, 0-10V, RS232) | 32 to 1832 * | 0 to 1000 * | Distance/5 (3 mm) | Nonmetal ** |
| SmartIRt/c.20 (4-20mA, 0-5V, 0-10V, RS232) | 32 to 1832 * | 0 to 1000 * | Distance/20 (16 mm) | Nonmetal ** |
| SmartIRt/c.40 (4-20mA, 0-5V, 0-10V, RS232) | 32 to 1832 * | 0 to 1000 * | Distance/40 (16 mm) | Nonmetal ** |

INFORMATION NEEDED

What's the _____ ?

Environment

Dusty/Dirty?

SmartIRt/c
IRt/c.3X
IRt/c.3SV
IRt/c.5
IRt/c.10
Adjustables
Micro IRt/c w/APJ
uIRt/c.4SV

Clean?

ANY

Surface Material and Finish

Non Metal /Coated Metal?

ANY

Metal?

Adjustable LoE

Ambient Temperature Range at sensor location

| | | | | |
|------------|----------------|-------------------|------------|-----------------|
| <160F/70C | <212F/100C | <347F/175C | <400F/200C | >400F/200C |
| IRt/c.01 | IRt/c | micro IRt/c w/APK | IRt/c.5 | IRt/c w/CJK |
| IRt/c.03 | IRt/c.1X | | IRt/c.10 | IRt/c.1X w/CJK |
| IRt/c.JR | IRt/c.3X | | Adjustable | IRt/c.3X w/CJK |
| SmartIRt/c | IRt/c.SV | | | IRt/c.3SV w/CJK |
| | IRt/c.3SV | | | |
| | micro IRt/c | | | |
| | micro IRt/c.SV | | | |

Target Size and distance from sensor to target

Distance/Target Size = D/S Ratio or FOV (D:S)
(See: Spot Size (min. spot size) column on Page 1)

Output Desired

Thermocouple

4-20mA

0-5V, 0-10V, RS232

Pre-calibrated

SmartIRt/c

SmartIRt/c

Adjustable

Any IRt/c w/XMTR

Target Temperature Variation and Range

| | | | |
|--------------------------------|--|--|---|
| ± 40F/25C wide & <500F/260C | > ± 40F/25C wide 32-1832F (0-1000C) | > ± 40F/25C wide & 32-1832F (0-1000C) | ± 40F/25C wide & -50-5000F (-45-2760C) |
| Pre-calibrated | SmartIRt/c | SmartIRt/c | Adjustable |
| | Pre-cal w/Programmable input | | |

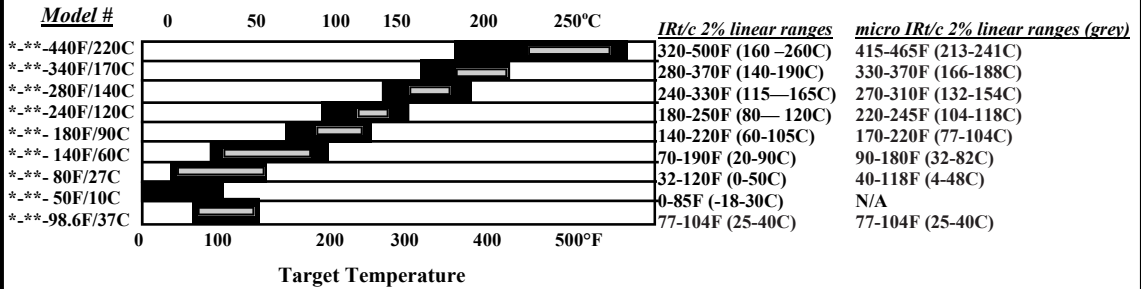
IRt/c SELECTION GUIDE

PRECALIBRATED MODELS—Ordering information: (Model)—(t/c type)—(Pre-Calibrated Temperature Range)

1. Select IRt/c Model, example: IRt/c.3X
2. Select the thermocouple type desired (J, K, etc.), add it to the model name, example: IRt/c.3X-K
3. Select the target temperature range. For example to control a temperature at 200F/93C, the black area in the table indicates "180F/90C", add this to complete your selection.

EXAMPLE: **IRt/c.3X-K-180F/90C**

NOTE: All temperature ranges will also be linear at temperatures close to its ambient temperature.



ADJUSTABLE MODELS—Ordering information: (Model) - (t/c type) - (HiE or LoE)

Select the model for (1) temperature range, (2) spot size, and (3) target surface material (nonmetal or metal, uncoated). Then finally, (4) select the thermocouple type (J,K, R or S).

EXAMPLE: **IRt/c.10A-K-HiE**

NOTE: Any adjustable model can be Pre Calibrated at any temperature within its sensing range, add the temperature to end of part # (i.e. IRt/c.10A-K-HiE-500F/260C)

SmartIRt/c MODELS—Ordering information: (Model) - (Power) - (Output) - (Temperature Range)

1. Select SmartIRt/c Model, example: SmartIRt/c.3
2. Select the required power (12 or 24 VDC), add it to the model name, example: SmartIRt/c.3-24V
3. Select the output desired (0-5V (05), 0-10V (010), 4-20mA (420), or RS232 (232)), add it to the model name, example: SmartIRt/c.3-24V-420
4. Select the linear temperature range desired (0-100C (100C), 0-250C (250C), 0-500C (500C), or 0-1000C (1000C)), add this to complete the selection, EXAMPLE: **SmartIRt/c.3-24V-420-250C**

NOTE: All model IRt/c's come standard w/ 3 FT (0.9 M) of cable. For additional cable length add it to end of part #. EXAMPLES: **IRt/c.03-J-140F/60C-10FT**, **SmartIRt/c.3-12V-010-100C-5M**



51 Water St.
Watertown, MA 02472

617-923-9900 . (F) 617-923-9911 . industrial@exergen.com

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