

**FEATURES**

- ❖ 100% Staefa Smart II compatible
- ❖ Factory can customize for most applications
- ❖ Over a hundred different temperature and ranges are available
- ❖ Provides pull-up or load resistor for temperature sensors or current transmitters
- ❖ Voltage divider for 0 to 10V DC signals

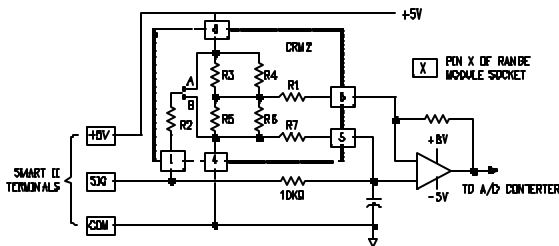
**APPLICATIONS**

- ❖ Retrofits involving non Staefa sensors
- ❖ Narrow temperature ranges for chilled and/or hot water control loops
- ❖ Narrowing range of 4-20mA transducers

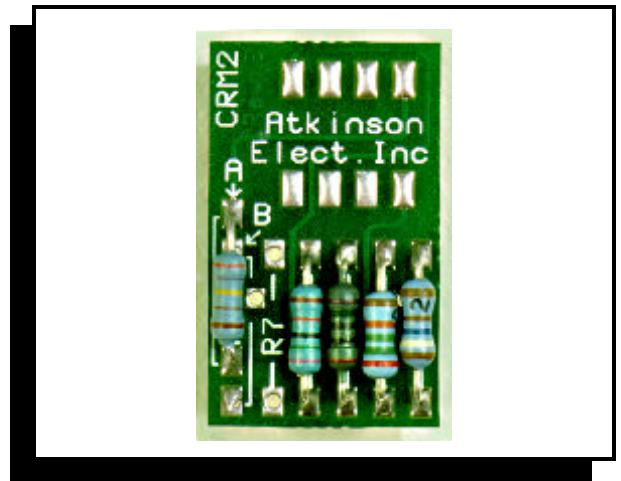
**DESCRIPTION**

The Staefa *Smart II* Controller has the flexible feature of being able to receive various analog input signals and have those signals scaled through on-board amplifiers to 0-5V DC to drive the built-in analog-to-digital converters. Staefa provides a number of scaling modules for the *Smart II* sensor family. The purpose of the CRM2 custom range module is to provide additional ranges for Staefa sensors and enable other types of sensors (such as 1KΩ RTD's, AD590's) to be used with the *Smart II* controller.

**OPERATION**



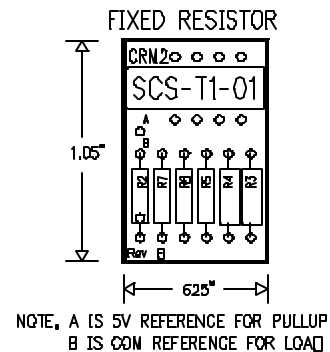
The input signals are fed through a 10KΩ resistor and filter capacitor on the *Smart II* to the non-inverting input of an amplifier. The CRM2 scaling resistors (unique to the type of sensor and temperature range) sets the level and gain for the amplifier so that the input signal is amplified to 0-5V DC for a 8 bit A/D converter resulting in a 256 count output. Pull-up or dropping resistors on the CRM2 serve as voltage dividers for temperature sensors such as RTD's or AD590's. Because of slight variances in power supply voltages between *Smart II* controllers and variations in 1% resistors it may be necessary to use the "offset-calibrate" feature on the service tool for minor adjustments.



**SPECIFICATIONS**

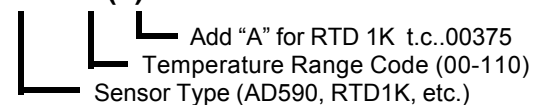
- SIZE: 1.1" L x .7" W x .4" D
- MOUNTING: 8 Pin socket on *Smart II*
- POWER: *Smart II* +5V supply
- INPUTS: Staefa Sensors, 1KΩ RTD, 2KΩ RTD, AD590, mA, Voltage
- OUTPUTS: *Smart II* Amplifier bias voltage
- RANGES: See DPX, Voltage & mA, and Temperature Range Charts

**PHYSICAL CONFIGURATION**



**ORDERING INFORMATION**

CRM2/XXX/XXX(X)



(See DPX, Voltage, and Temperature Range Charts)

**CRM2-DPX-5 PRESSURE RANGE CHART**

Range Code	IWC Range	SM2 Base/Gain	CRM2 Part Number
DPX-.13	0 to 0.13"wc	B = 0.0 G = 0.0005	CRM2-DPX.13 SM2-RMD P1-30(12)
DPX-.50	0 to 0.50"wc	B = 0.0 G = 0.002	CRM2-DPX.50
DPX-1	0 to 1.0"wc	B = 0.0 G = 0.0039	CRM2-DPX-1
DPX-1.3	0 to 1.3"wc	B = 0.0 G = 0.0051	CRM2-DPX1.3
DPX-1.5	0 to 1.5"wc	B = 0.0 G = 0.0059	CRM2-DPX1.5 SM2-RMD P2-30(13)

Range Code	IWC range	SM2 Base/Gain	CRM2 Part Number
DPX-2	0 to 2.0"wc	B = 0.0 G = 0.0078	CRM2-DPX-2
DPX-3	0 to 3.0"wc	B = 0.0 G = 0.0118	CRM2-DPX-3
DPX-4	0 to 4.0"wc	B = 0.0 G = 0.0157	CRM2-DPX-4
DPX-5	0 to 5.0"wc	B = 0.0 G = 0.0196	CRM2-DPX-5 SM2-RMD P3 (14)

**CRM2 VOLTAGE AND 4-20mA RANGE CHART**

Range Code	VDC Range	SM2 ** Base/Gain	CRM2 Part Number
VLT-01	0 to 1V DC	B = 0.0 G = 0.0039	CRM2-VLT-01
VLT-02	0 to 2V DC	B = 0.0 G = 0.0078	CRM2-VLT-02
VLT-2.5	0 to 2.5V DC	B = 0.0 G = 0.0098	CRM2-VLT-2.5
VLT-03	0 to 3V DC	B = 0.0 G = 0.0118	CRM2-VLT-03
VLT-04	0 to 4V DC	B = 0.0 G = 0.0157	CRM2-VLT-04
VLT-10	0 to 10V DC	B = 0.0 G = 0.0392	CRM2-VLT-10
VLT-40	1 to 5V DC	B = 1.0 G = 0.0157	CRM2-VLT-40
VLT-41	1 to 1.4V DC	B = 1.0 G = 0.0015	CRM2-VLT-41
VLT-42	1 to 1.8V DC	B = 1.0 G = 0.0314	CRM2-VLT-42
VLT-44	.2 to 1V DC	B = 0.2 G = 0.0314	CRM2-VLT-44
VLT-210	2 to 10V DC	B = 2.0 G = 0.0314	CRM2-VLT-210

Range Code	mA range	SM2 ** Base/Gain	CRM2 Part Number
mA-01	0 to 1mA	B = 0.0 G = 0.0039	CRM2-mA-01 1KΩ load resistor
mA-40	4 to 20mA	B = 4.0 G = 0.0627	CRM2-MA-40 250Ω load resistor
mA-41	4 to 5.6mA	B = ? G = ?	CRM2-MA-41 SM2-MUX Sq. rt.
mA-42	4 to 7.2mA	B = ? G = ?	CRM2-MA-42 SM2-MUX Sq. rt.
mA-44	4 to 20mA	B = ? G = ?	CRM2-MA-44 50Ω load resistor
mA-45	5.82 to 10.91mA	B = ? G = ?	CRM2-MA-45 250Ω load resistor
mA-48	8.44 to 17.33mA	B = ? G = ?	CRM2-MA-48 250Ω load resistor

NOTE: The SM2 Base and Gain values in the chart are calculated to display the voltage on the SM2 input. Your Base and Gain values should be calculated on what your input signal represents (%RH, 0 to 100% Temperature etc.).

Call for other calibration ranges and versions.

If you have a different application or need, please call 1-800-261-3602 and discuss your needs with our Sales Engineers.

# TEMPERATURE RANGE CHART - CUSTOM RANGES (others available upon request)

CRM2

Temp Code	Temperature Range	SMART II		AD590		RTD1k		RTD 2k	STAEFA		JC 1k/70°
		Base	Gain	+5V	+15V	385	375		T-1	T-XX	
00	-31 to 95°F -35 to 35°C	-31.0 -35.0	0.4941 0.2745	■	■	■	■ A		■	T-35	
01	-10 to 118°F -23.3 to 47.8°C	-10.0 -23.3	0.5020 0.2788	■	■	■	■ A	■	■		
02	-36 to 120°F -37.8 to 48.9°C	-36.0 -37.8	0.6118 0.3400	■	■	■	■ A		■		
03	0 to 100°F -17.8 to 37.8°C	0.00 -17.8	0.3922 0.2180	■	■	■	■ A	■	■		
04	32 to 86°F 0 to 30°C	32.0 0.00	0.2118 0.1176	NA	■	NA	NA	■	■	T-30	TE-1900
04G	35 to 86°F 1.7 to 30°C	35.0 1.70	0.2000 0.1110	NA	■	NA	NA	NA			
05	32 to 100°F 0 to 37.8°C	32.0 0.00	0.2667 0.1482	■	■	■	■ A	■	■	T-30	
06	20 to 148°F -6.7 to 64.4°C	20.0 -6.70	0.5020 0.2788	■	■	■	■ A	■	■		TE-1900
07	80 to 208°F 26.7 to 97.8°C	80.0 26.7	0.5020 0.2788	■	■	■	■ A	■		T-105	TE-1900
08	75 to 140°F 23.9 to 60.0°C	75.0 23.9	0.2549 0.1416	■	■	■	■ A	■		T-120	
08G	55 to 140°F 12.8 to 60.0°C	55.0 12.8	0.3333 0.1851	■	■	■	■ A	■			
09	0 to 256°F -17.8 to 124.4°C	0.00 -17.8	1.0000 0.5576	■	■	■	■ A		■		
10	-32 to 220°F -35.6 to 104.4°C	-32.0 -35.6	0.9882 0.5490	■	■	■	■ A		■		
11	20 to 120°F -6.7 to 48.9°C	20.0 -6.70	0.3922 0.2180	■	■	■	■ A	■	■		
12	40 to 140°F 4.4 to 60.0°C	40.0 4.40	0.3922 0.2180	■	■	■	■ A	■			
13	30 to 130°F -1.1 to 54.4°C	30.0 -1.10	0.3922 0.2180	■	■	■	■ A	■			
14	25 to 75°F -3.9 to 23.9°C	25.0 -3.90	0.1961 0.1090	NA	■	NA	NA	NA		T-35	
15	50 to 100°F 10 to 37.8°C	50.0 10.0	0.1961 0.1090	NA	■	NA	NA	■		T-30 T-120	
16	0 to 64°F -17.8 to 17.8°C	0.00 -17.8	0.2510 0.1396	■	■	■	■ A	■	■	T-38	
17	32 to 118°F 0 to 47.8°C	32.0 0.0	0.3373 0.1875	■	■	■	■ A	■	■		
18	14 to 142°F -10 to 61.1°C	14.0 -10.0	0.5020 0.2788	■	■	■	■ A	■			
19	60 to 115°F 15.6 to 46.1°C	60.0 15.6	0.2571 0.1196	■	■	NA	NA	■		T-120	

Temp Code	Temperature Range	SMART II		AD590		RTD1k		RTD 2k	STAEFA		JC 1k/70°
		Base	Gain	+5V	+15V	385	375		T-1	T-XX	
20	80 to 180°F 26.7 to 82.2°C	80.0 26.7	0.3922 0.2176	■	■	■	■ A	■	■	T-20	
21	53 to 180°F 11.7 to 82.2°C	53.0 11.7	0.4980 0.2765	■	■	■	■ A	■		T-120	
22	140 to 210°F 60.0 to 98.9°C	140 60.0	0.2745 0.1525	■	■	■	■ A	■	■	T-105	
23	-36 to 50°F -37.8 to 10°C	-36.0 -37.8	0.3373 0.1875	■	■	■	■ A	NA	■		
24	-50 to 100°F -45.6 to 37.8°C	-50.0 -45.6	0.5882 0.3271	■	■	■	■ A	NA	NA		
25	40 to 70°F 4.4 to 21.1°C	40.0 4.40	0.1176 0.0655	NA	■	NA	NA	NA	NA	T-30	
26	55 to 85°F 12.8 to 29.4°C	55.0 12.8	0.1176 0.0655	NA	■	NA	NA	NA	NA	T-30	
27	35 to 75°F 1.7 to 23.9°C	35.0 1.70	0.1569 0.0871	NA	■	NA	NA	NA	NA	T-30	
28	80 to 110°F 26.7 to 43.3°C	80.0 26.7	0.1176 0.0655	NA	■	NA	NA	NA	NA	T-120	
29	50 to 80°F 10 to 26.7°C	50.0 10.0	0.1176 0.0655	NA	■	NA	NA	NA	NA	T-30	
30	4.64k Pull-up SM2-RMP (01)			NA	NA	NA	NA	NA	NA	T-35 T-120	
31	Klimo (5V ref.) SM2-RMT (02)			NA	NA	NA	NA	NA	NA	T-20 T-30 T-38 T-40 T-75 T-105	
32	Klimo (6V ref.) SM2-RMK (03)	30.0	0.2353	NA	NA	NA	NA	NA	NA	H-90 (6V)	
33	Klimo (5V ref)	30.0	0.2353	NA	NA	NA	NA	NA	NA	H-90 (5V)	
34	T-30 EXP SM2-Rmt-30X	39.0 3.90	0.2431 0.1349	NA	NA	NA	NA	NA	NA	T-30	
35	FNC-DA XXX **See Appl #12			NA	NA	■	■ A	■	■	NA	T-30
36	40 to 60°F 4.4 to 15.6°C	40.0 4.40	0.0784 0.0439	NA	■	NA	NA	NA	NA	T-30	
37	60 to 80°F 15.6 to 26.7°C	60.0 15.6	0.0784 0.0439	NA	■	NA	NA	NA	NA	T-30	
38	58 to 83°F 14.4 to 28.3°C	58.0 14.4	0.0980 0.0545	NA	■	NA	NA	NA	NA	T-30	
39	60 to 100°F 15.6 to 37.8°C	60.0 15.6	0.1569 0.0871	NA	■	NA	NA	NA	NA	T-30	

# TEMPERATURE RANGE CHART - CUSTOM RANGES *(others available upon request)*

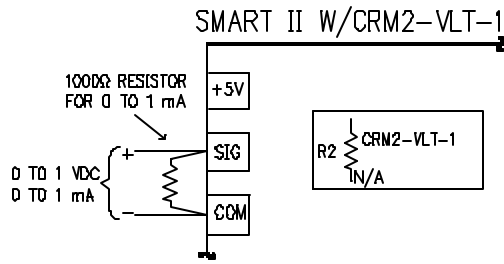
CRM2

Temp Code	Temperature Range	SMART II		AD590		RTD1k		RTD 2k	STAEFA		JC 1k/70°
		Base	Gain	+5V	+15V	385	375		T-1	T-XX	
50	39 to 101°F 3.9 to 38.3°C	39.0 3.90	0.2431 0.1349	■	■	■	■ A	■	■	T-30 (34)	
51	80 to 160°F 26.7 to 71.1°C	80.0 26.7	0.3137 0.1741	■	■	■	■ A	■	■	T-105	
59	23 to 87°F -5.0 to 30.6°C	23.0 -5.0	0.2510 0.1396	NA		■	■ A	■	NA		
60											
61	40 to 80°F 4.4 to 26.7°C	40.0 4.40	0.1569 0.0875	NA	■	NA	NA	NA	NA	T-30	
62	55 to 80°F 12.8 to 26.7°C	55.0 12.8	0.0980 0.0545	NA	■	NA	NA	NA	NA	T-30	
66	50 to 220°F 10 to 104.4°C	50.0 10.0	0.6667 0.3702	■	■	■	■ A	■	■	T-120	
67	-50 to 50°F -45.6 to 10°C	-50.0 -45.6	0.3922 0.2180	■	■	■	■ A		NA		
68	-25 to 50°F -31.7 to 10°C	-25.0 -31.7	0.2941 0.1635	■	■	■	■ A			T-38	
69	0 to 70°F -17.8 to 21.1°C	0.00 -17.8	0.2745 0.1525	■	■	■	■ A	■	■	T-35	
70	20 to 84°F -6.7 to 28.9°C	20.0 -6.70	0.2510 0.1396	■	■	■	■ A		NA	T-35	
71	40 to 100°F 4.4 to 37.8°C	40.0 4.40	0.2353 0.1310	■	■	■	■ A	■		T-38	
72	40 to 200°F 4.4 to 93.3°C	40.0 4.40	0.6275 0.3486	■	■	■	■ A		NA		
73	80 to 250°F 26.7 to 121.1°C	80.0 26.7	0.6667 0.3702	■	■	■	■ A			T-120	
74	-50 to 400°F -45.6 to 204.4°C	-50.0 -45.6	1.7650 0.9804	■	■	■	■ A		NA		
75	-100 to 0.0°F -73.3 to -17.8°C	-100 -73.3	0.3922 0.2176	■	■	■	■ A		NA		
76	-140 to -40°F -95.6 to -40.0°C	-140 -95.6	0.3922 0.2180	■	■	■	■ A		NA		
77	-140 to -100°F -95.6 to -73.3°C	-140 -95.6	0.1569 0.0875	■	■	NA	NA		NA		
78	-40 to 20°F -40 to -6.7°C	-40.0 -40.0	0.2353 0.1306	■	■	■	■ A	■	NA		
79	-130 to -50°F -90 to -45.6°C	-130 -90.0	0.3137 0.1741	■	■	■	■ A		NA		
80	40 to 400°F 4.4 to 204.4°C	40.0 4.40	1.4118 0.7843	■	■	■	■ A		NA		

Temp Code	Temperature Range	SMART II		AD590		RTD1k		RTD 2k	STAEFA		JC 1k/70°
		Base	Gain	+5V	+15V	385	375		T-1	T-XX	
81	0 to 80°F -17.8 to 26.7°C	0.0 -1.78	0.3137 0.1745	■	■	■	■ A	■	■	T-35	
82	60 to 118°F 15.6 to 47.8°C	60.0 15.6	0.2275 0.1263	■	■	■	■ A	■	NA	T-105	
83	30 to 100°F -1.1 to 37.8°C	30.0 -1.10	0.2745 0.1525	■	■	■	■ A			T-30 T-38	TE-1900
84	45 to 120°F 7.2 to 48.9°C	45.0 7.20	0.2941 0.1635	■	■	■	■ A			T-120	
85	120 to 210°F 48.9 to 98.9°C	120 48.9	0.3259 0.1961	■	■	■	■ A	■	■	T-105	
86	96 to 160°F 35.6 to 71.1°C	96.0 35.6	0.2510 0.1392	■	■	■	■ A			T-105	
87	150 to 406°F 65.6 to 207.8°C	150 65.6	1.0000 0.5576	■	■	■	■ A		NA		
88	50 to 250°F 10 to 121.1°C	50.0 10.0	0.7843 0.4357	■	■	■	■ A		NA		
89	70 to 200°F 21.1 to 93.3°C	70.0 21.1	0.5098 0.2831	■	■	■	■ A				
90	15 to 90°F -9.4 to 32.2°C	15.0 -9.4	0.2941 0.1631	■	■	■	■ A			T-35 T-38	
100	-58 to 32°F -50 to 0°C	-58.0 -50.0	0.3529 0.1961	■		■				NA	
101	32 to 122°F 0 to 50°C	32.0 0.0	0.3529 0.1961	■		■	■ A				
102	32 to 140°F 0 to 60°C	32.0 0.0	0.4235 0.2353	■		■	■ A				
103	32 to 212°F 0 to 100°C	32.0 0.0	0.7059 0.3922	■		■	■ A				
104	50 to 158°F 10 to 70°C	50.0 10.0	0.4235 0.2353			■	■ A				
105	104 to 194°F 40 to 90°C	104 40.0	0.3529 0.1961			■	■ A			T-105	
106	71.6 to 302°F 22 to 150°C	71.6 22.0	0.9035 0.5020			■	■ A		NA		
107	176 to 266°F 80 to 130°C	176 80.0	0.3529 0.1961	■		■	■ A		NA		
108	-67 to 5°F -55 to -15°C	-67.0 -55.0	0.2824 0.1569	■					NA		
109	-148 to 32°F -100 to 0°C	-148 -100	0.7059 0.3922			■	■ A		NA		
110											

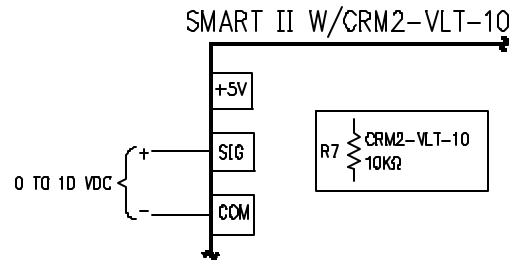
NOTE: When ordering CRM2 range modules for RTD-1k with a T.C. of 0.00375 add an "A" to the temperature range code. Example CRM2/RTD-1k/50A. "•A" is a reminder to ADD "A" to the ordering code. The • indicates that a CRM2 Module has been built for that sensor type & temperature range.

**APPLICATION 1 - VOLTAGE SCALING (UP)**



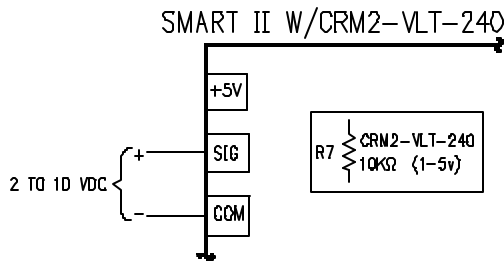
The 0-1VDC signal or 0-1mA through a 1K Ω resistor is fed into the *Smart II* analog input. The output from the amplifier is 0-5V DC with the CRM2-VLT-1 module. Other voltage ranges are available upon request.

**APPLICATION 2 - VOLTAGE SCALING (DOWN)**



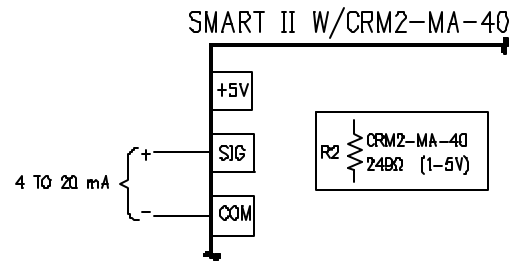
The 0-10V DC signal is fed into the *Smart II* analog input, through a 10K Ω ohm resistor, and into an amplifier stage. The CRM2-VLT-10 range module then provides the second half of a voltage divider network (R7), which scales the input signal down to 0-5V DC.

**APPLICATION 3 - CUSTOM VOLTAGE SCALING**



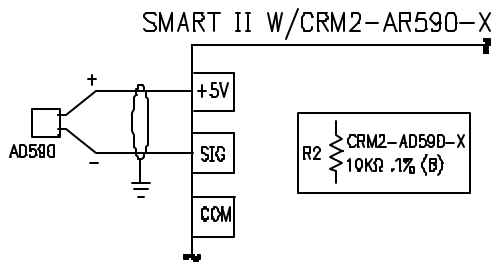
The custom voltage signal is fed into the *Smart II* analog input, through a 10K Ω resistor, and into an amplifier stage. The CRM2-VLT-Custom range module then provides the second half of a voltage divider network (R7), which scales the input signal to 0-5V DC. The CRM2 MUST be ordered for the specific input voltage signal.

**APPLICATION 4 - MA SCALING**



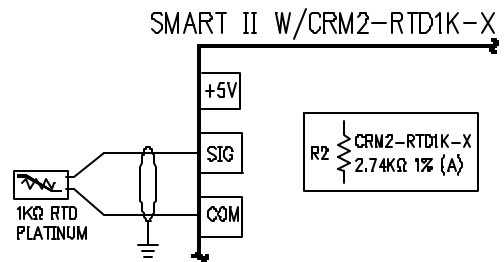
The 4-20mA signal is fed into the *Smart II* analog input and dropped across the 249 ohm load resistor located on the CRM2-MA-40 range module, producing a 1-5V DC signal. This signal is then amplified to 0-5V DC. Other CRM2-MA modules are available, See Voltage /mA range chart.

**APPLICATION 5 - AD590 TEMPERATURE SENSOR**



Analog Devices: AD590 is a linear current temperature sensor (273µA = 0°C, 373µA = 100°C). It wires between the *Smart II* +5V DC supply and input, and produces a voltage across R2 of the CRM2 module. The desired range is then amplified to 0-5V DC on board the *Smart II*.

**APPLICATION 6 - 1000Ω RTD SENSOR**

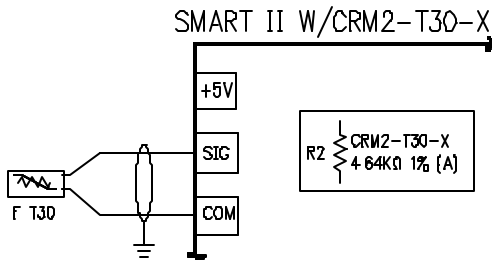


The 1000Ω platinum RTD forms a voltage divider with R2 (2.74KΩ) a pull-up resistor on the CRM2 module, the desired range is then amplified to 0-5V DC on board the *Smart II*. See *Temperature range chart* for available temperature ranges.

Call for other calibration ranges and versions.

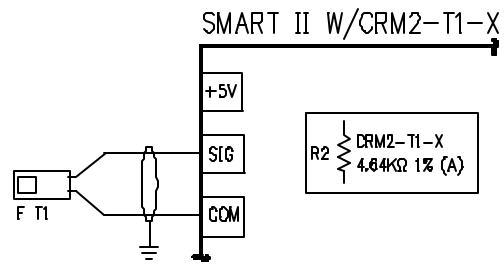
If you have a different application or need, please call 1-800-261-3602 and discuss your needs with our Sales Engineers.

**APPLICATION 7 - T-30 NARROW RANGE APP.**



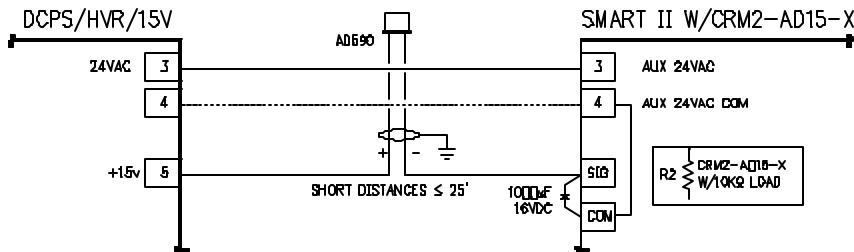
By using the *Smart II* universal inputs, a narrower temperature range can be selected from the T-30 sensor for tight temperature control. The standard T-30 sensor differential is 32 to 86°F or Δ of 54°F, with the CRM2 range module, a Δ as narrow as 15°F can be achieved without exceeding the gain requirements of the *Smart II* input amplifier.

**APPLICATION 8 - T1 TEMPERATURE SENSOR**



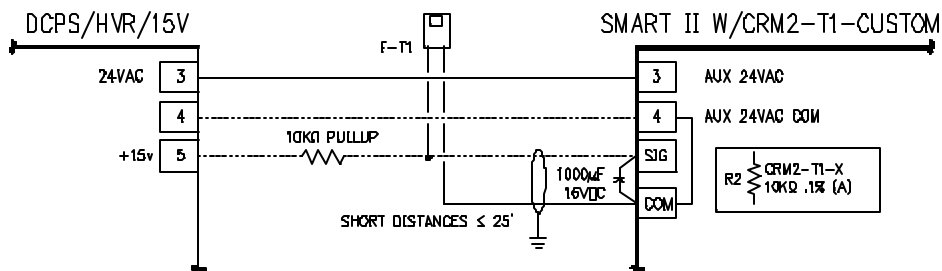
Stæfaonly offers a couple ranges for the T1 sensor. Many applications require different temperature ranges for control. Atkinson Electronics offer several standard ranges for the T1 sensor, See Temperature Range Chart for available temperature ranges.

**APPLICATION 9 - AD590 NARROW TEMPERATURE RANGE WITH EXTERNAL SUPPLY**



The AD590 temperature sensor puts out 1 microamp per degree C (273µA = 0°C, 373µA = 100°C). The DCPS powered by the *Smart II* auxiliary output terminals 3 & 4, puts out +15V DC to power the AD590 temperature sensor for short distances of less than 25 feet. The +15V DC enables the AD590 to drive a high enough valve resistor on the CRM2-AD15-62 range module to allow narrow ranges such as 55-80°F. These ranges provide 10 counts or more per degree for much higher resolution in close temperature control applications. To minimize noise effecting the microamp signal, shielded cable should be used. If noise does occur add a 1000µf 16V electrolytic cap across input to ground.

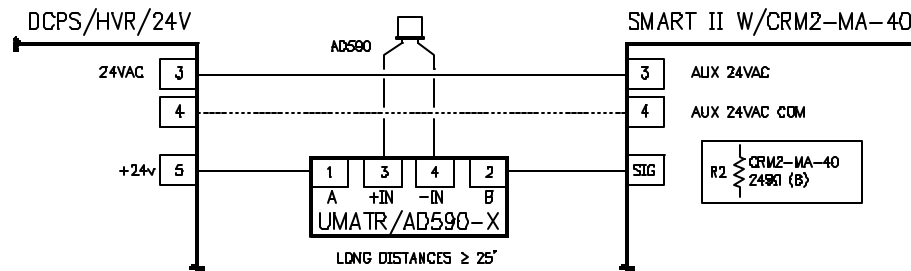
**APPLICATION 10 - T1 NARROW TEMPERATURE RANGE WITH EXTERNAL SUPPLY**



Stæfaonly offers 3 temperature sensor ranges for the T1 sensor. By using a +15V DC power supply and a 10KΩ .1% pull-up resistor the T1 sensor can achieve a range as narrow as 25°F. The 10KΩ pull-up resistor is connected between the DCPS power supply output (Term #5) and the *Smart II* signal input. Please specify temperature range and that it's powered for a +15V DC source when ordering the custom T1 range modules. To minimize noise effecting the microamp signal, shielded cable should be used. If noise does occur add a 1000µf 16V electrolytic cap across input to ground.

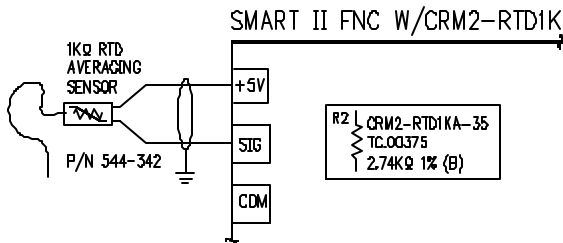
*If you have a different application or need, please call 1-800-261-3602 and discuss your needs with our Sales Engineers.*

APPLICATION 11 - AD590 NARROW TEMPERATURE RANGE WITH 4-20 MA TRANSMITTER

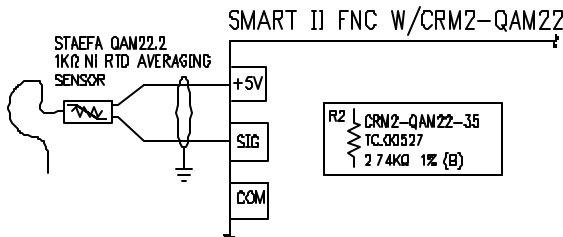


For AD590 sensor runs of greater than 25 feet, a 4-20mA Transmitter is recommended. The DCPS powered by the *Smart II* auxiliary 24V AC output, puts out +24V DC to power the UMATR 4-20mA transmitter. The UMATR can be calibrated for temperature range with a differential of 50°F. For narrower ranges a custom CRM2-MA range module would be used.

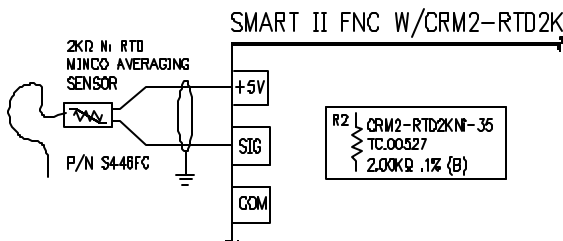
APPLICATION 12 - STAEFA'S 1KΩ RTD AVERAGING SENSOR REPLACEMENT FOR FDN-30



The 1000Ω RTD duct averaging sensor P/N 544-342 replaces the old FDN-30 averaging sensor. The 1K RTD sensor is direct acting and the FDN-30 was reverse acting. To make the 1K RTD work it requires it to be wired between +5VDC (39) and input (38) terminals and use CRM2/RTD-1KA-35 range module which provides the load resistor between the input and common. The voltage generated across the load resistor (R2-2.74KΩ) is reverse acting and is scaled by the CRM2 to the 27 to 154°F input range.



The QAM22.6 duct averaging sensor from Staefa can also be used to replace the old FDN-30 averaging sensor. The QAM22.6 sensor is a Ni 1KΩ RTD that is direct acting and thus requires it to be wired the same as the 1K RTD sensor, between +5VDC (39) and input (38) terminals. Use CRM2/QAM22-35 range module which provides the load resistor between the input and common. The voltage generated across the load resistor (R2-2.74KΩ) is reverse acting and is scaled by the CRM2 to the 27 to 154°F input range.



The 2KΩ RTD duct averaging sensor from Minco P/N S446FC can replace the old FDN-30 averaging sensor also. The Minco 2K RTD sensor is also direct acting and requires it to be wired the same as the 1K RTD sensor, between +5VDC (39) and input (38) terminals. Use CRM2/RTD-2K-35 range module which provides the load resistor between the input and common. The voltage generated across the load resistor (R2-2.74) is reverse acting and is scaled by the CRM2 to the 27 to 154°F input range.

Call for other calibration ranges and versions.

If you have a different application or need, please call 1-800-261-3602 and discuss your needs with our Sales Engineers.