



AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

WATER TEMPERATURE SENSOR

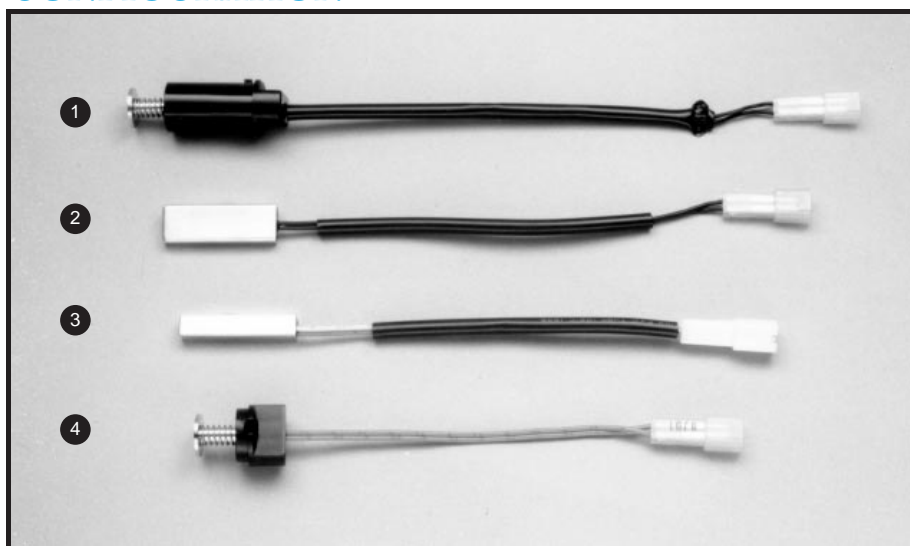
APPLICATION

Automatic Temperature Control For Automobile Air Conditioning

FEATURES

- Low cost
- Accurate

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	β -constant
1	A-1405	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330K±2%
2	A-1406	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330K±2%
3	A-1407	-40-+95°C	R(50)=0.5K Ω ±3%	β (0/50)=3523K±2%
4	A-1408	-40-+95°C	R(25)=10.0K Ω ±3%	β (0/50)=3880K±2%

Crown Industrial Estate, Priorswood Road
Taunton, Somerset TA2 8QY UK
Tel +44 (0) 1823 335200
Fax +44 (0) 1823 332637

808 US Highway 1
Edison, New Jersey 08817-4695 USA
Tel +1 (732) 287 2870
Fax +1 (732) 287 8847

967 Windfall Road
St. Marys, Pennsylvania 15857-3397 USA
Tel +1 (814) 834 9140
Fax +1 (814) 781 7969



AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

AMBIENT TEMPERATURE SENSOR

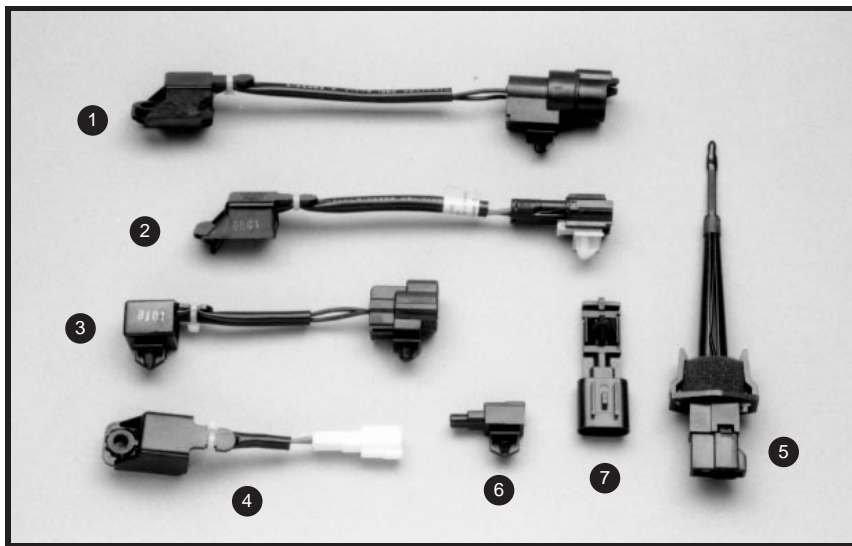
APPLICATION

Automatic Temperature Control For Automobile Air Conditioning

FEATURES

- Low cost
- Accurate

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	β -constant
1	A-1409	-40-+95°C	R(25)=2.0K Ω ±3%	β (0/50)=3230K±2%
2	A-1410	-40-+95°C	R(25)=2.186K Ω ±3%	β (0/50)=3390K±2%
3	A-1411	-40-+95°C	R(25)=2.5K Ω ±3%	β (0/50)=3880K±2%
4	A-1412	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330K±2%
5	A-1413	-40-+95°C	R(25)=11.36K Ω ±3%	β (0/50)=3400K±2%
6	A-1414	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330K±2%
7	A-1415	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330K±2%

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AUTOMOTIVE SENSOR ASS'Y

SOLAR SENSOR

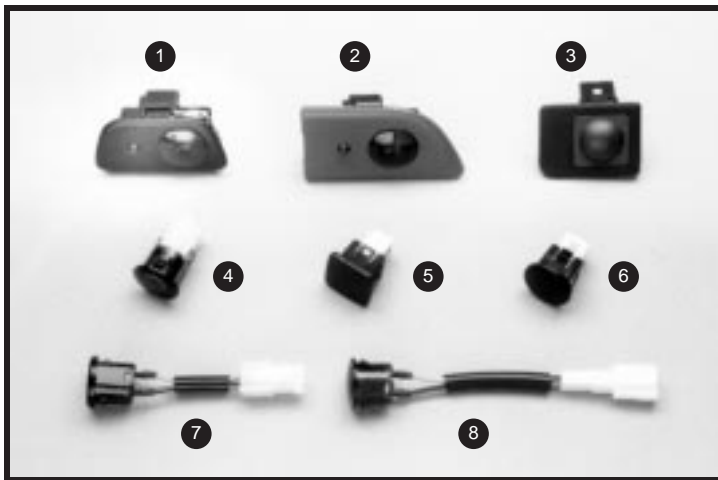
APPLICATION

Automatic Temperature Control For Automobile
Air Conditioning

FEATURES

- The Solar Sensor measures the intensity of the sun for controlling the air conditioning system.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Output Characteristics	
			Measuring Condition	Output Signal
1	A-1416	-40-+110°C	At 660kcal/m ² h	0.5mA±15%
2	A-1417	-40-+110°C	At 660kcal/m ² h	0.5mA±15%
3	A-1418	-40-+110°C	At 1000 Lux	61 uA±15%
4	A-1419	-40-+110°C	At 660kcal/m ² h	0.32mA±15%
5	A-1420	-40-+110°C	At 40000 Lux	58.8mV±15%
6	A-1421	-40-+110°C	At 40000 Lux	58.8mV±15%
7	A-1422	-40-+95°C	At 660kcal/m ² h	0.32mA±15%
8	A-1423	-40-+95°C	At 660kcal/m ² h	0.5mA±15%

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Fax +1 (732) 287 8847

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AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

EVAPORATOR TEMPERATURE SENSOR

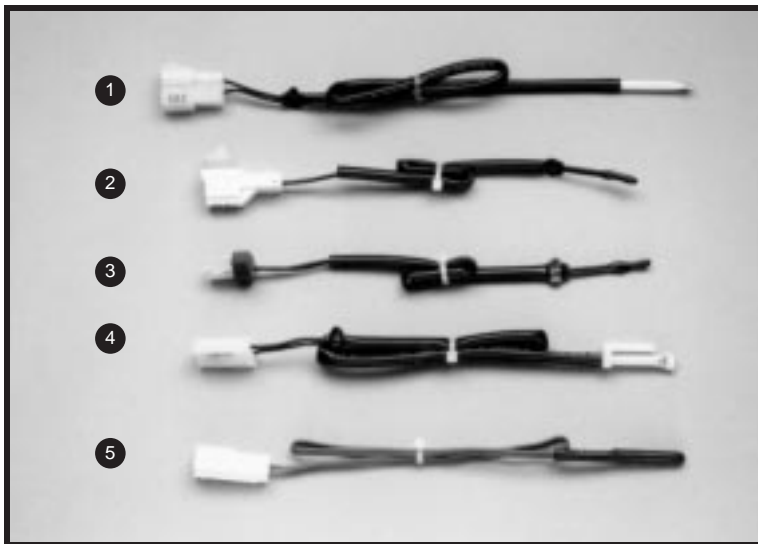
APPLICATION

Automatic Temperature Control For Automobile
Air Conditioning

FEATURES

- The Evaporator Temperature Sensor measures the temperature of the air-flow behind the evaporator.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	β -constant
1	A-1424	-40-+95°C	$R(25)=11.94K\Omega\pm 3\%$	$\beta(0/50)=3400K\pm 2\%$
2	A-1425	-40-+95°C	$R(25)=8K\Omega\pm 3\%$	$\beta(0/50)=3880K\pm 2\%$
3	A-1426	-40-+95°C	$R(25)=8K\Omega\pm 1\%$	$\beta(0/50)=3880K\pm 1\%$
4	A-1427	-40-+95°C	$R(25)=2K\Omega\pm 3\%$	$\beta(25/50)=3980K\pm 2\%$
5	A-1428	-40-+95°C	$R(25)=10K\Omega\pm 1\%$	$\beta(25/50)=3933K\pm 1\%$

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AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

THERMOCON EVAPORATOR TEMPERATURE SENSOR CONTROLLER

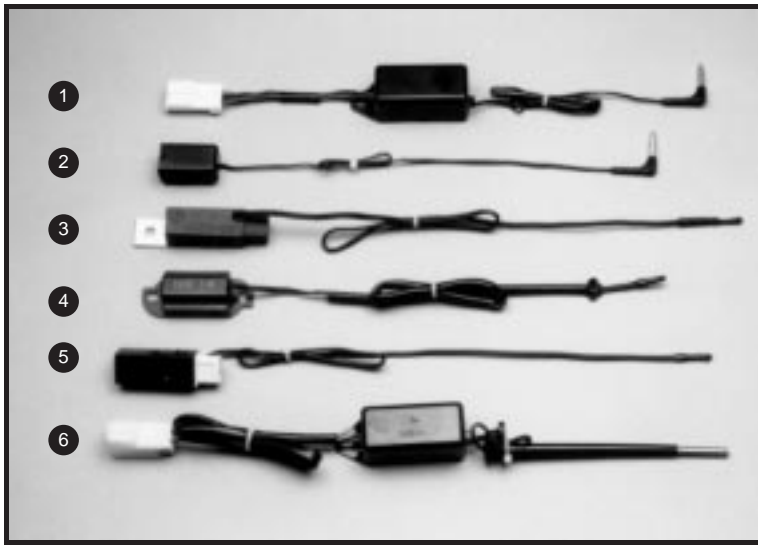
APPLICATION

Semi Auto Temperature Control For Automobile
Air Conditioning

FEATURES

- The Thermocon controls the temperature of the evaporator in car air conditioning system.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Temperature Characteristics		Time constant
			OFF Temp.	DIFF. Value	
1	A-1429	-40-+95°C	0.5±0.5°C	2.5±0.5°C	Max 10 sec
2	A-1430	-40-+95°C	0.5±0.5°C	2.5±0.5°C	Max 10 sec
3	A-1431	-40-+95°C	3.5±0.5°C	1.5±0.5°C	4±1.5 sec
4	A-1432	-40-+95°C	0.5±0.5°C	1.5±0.5°C	Max 8 sec
5	A-1433	-40-+95°C	0.5±0.5°C	2.5±0.5°C	Max 8 sec
6	A-1434	-40-+95°C	1.5±0.5°C	3.5±0.5°C	Max 12 sec

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Fax +1 (732) 287 8847

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AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

IN-CAR TEMPERATURE SENSOR

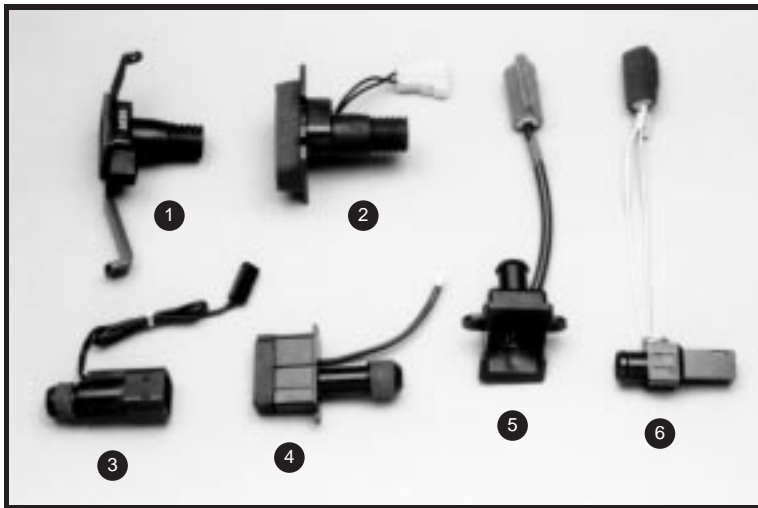
APPLICATION

Automatic Temperature Control For Automobile
Air Conditioning

FEATURES

- The In-Car Temperature Sensor measures the temperature of the inside air in an automobile air conditioner system.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	β -constant
1	A-1435	-40-+95°C	R(25)=2.5K Ω ±3%	β (0/50)=3880k±2%
2	A-1436	-40-+95°C	R(25)=2.5K Ω ±3%	β (0/50)=3880k±2%
3	A-1437	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330k±2%
4	A-1438	-40-+95°C	R(25)=2.18K Ω ±3%	β (0/50)=3330k±2%
5	A-1439	-40-+95°C	R(25)=2.5K Ω ±3%	β (0/50)=3880k±2%
6	A-1440	-40-+95°C	R(25)=2.186K Ω ±3%	β (0/50)=3390k±2%

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Fax +1 (732) 287 8847

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AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

WATER TEMPERATURE SENSOR FOR "ECU"

APPLICATION

For electronic engine control system.

FEATURES

- The Water Temperature Sensor measures the temperature of the engine coolant.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	Thermal constant	Remarks
1	A-1441	-40-+130°C	$R(80)=321.4\Omega\pm 4\%$	Max. 10sec(25->85Ω)	Dual Sensor
2	A-1442	-40-+130°C	$R(120)=200.5\Omega\pm 2\%$	Max. 10sec(25->85Ω)	Dual Sensor



AUTOMOTIVE NTC THERMISTOR SENSOR ASS'Y

GAUGE WATER TEMPERATURE SENSOR

APPLICATION

For engine system temperature measurement.

FEATURES

- The Gauge Water Temperature Sensor measures the temperature of the engine coolant.

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Resistance	β -constant	Remarks
1	A-1443	-40-+130°C	R(25)=2.5K Ω ±3%	β (0/50)=3850k±2%	
2	A-1444	-40-+130°C	R(25)=870K Ω ±5%	β (50/120)=4130k±3%	13.5V
3	A-1445	-40-+130°C	R(100)=42.21K Ω ±5%	β (25/150)=3926k±2%	7V



AUTOMOTIVE SWITCH ASS'Y

OIL PRESSURE SWITCH

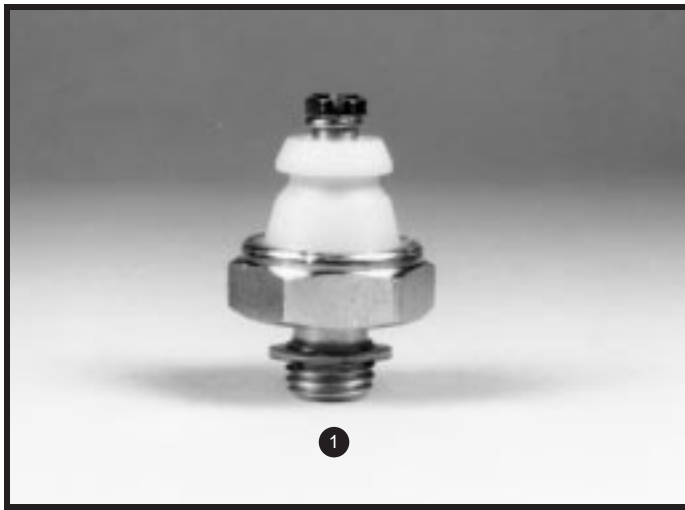
APPLICATION

For engine oil pressure warning system.

FEATURES

- The oil pressure switch senses engine oil pressure

CONFIGURATION



RATING

Fig. No.	Part Number	Operating Temp. Range	Operating Pressure	Contact Resistance
1	A-1446	-40+140°C	B(0.2)-055 bar.	Max. 0.75Ω



NTC THERMISTOR SENSOR ASS'Y: WHITE GOODS

TEMPERATURE SENSOR FOR AIR CONDITIONER

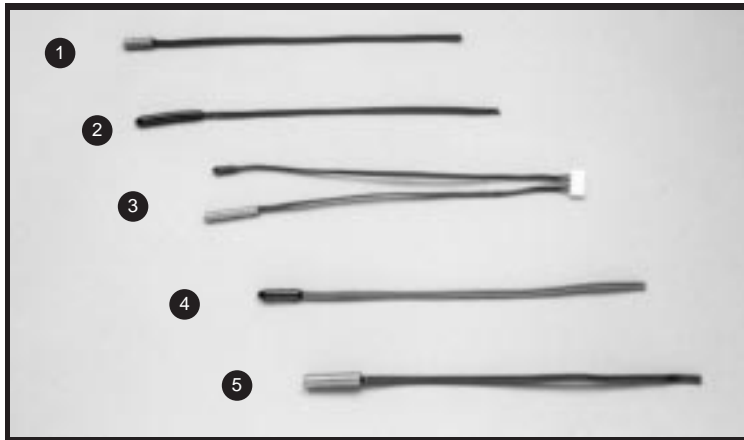
APPLICATION

Air Conditioner sensor.

FEATURES

- The Temperature Sensor controls air conditioner temperature

CONFIGURATION



RATING

Fig. No.	Part Name	Resistance	β -constant	REMARKS (HEAD TYPE)
1	A-1447	$R(100)=3.7K\Omega\pm 2.5\%$	$B(0/100)=3979K\Omega\pm 1\%$	Cu case (4-15)
2	A-1448	$R(0)=15K\Omega\pm 2\%$	$B(0/100)=3450K\Omega\pm 2\%$	PVC Cap (3-30)
3	A-1449	$R(50)=2.09K\Omega\pm 3\%$	$B(0/50)=3877K\Omega\pm 2\%$	Epoxy
	A-1450	$R(25)=5.0K\Omega\pm 3\%$	$B(25/50)=3950K\Omega\pm 2\%$	Cu case (4.5-24)
4	A-1451	$R(25)=10K\Omega\pm 5\%$	$B(25/50)=3933K\Omega\pm 2\%$	Epoxy
5	A-1452	$R(25)=10K\Omega\pm 5\%$	$B(25/50)=3933K\Omega\pm 2\%$	Cu case (6-24)



NTC THERMISTOR SENSOR ASS'Y: WHITE GOODS

TEMPERATURE SENSOR FOR REFRIGERATOR

APPLICATION

Refrigerator Sensor

FEATURES

- The Temperature Sensor controls refrigerator temperature

CONFIGURATION



RATING

Fig. No.	Part Name	Resistance	β -constant	REMARKS (HEAD TYPE)
1	A-1453	$R(-1)=31.36K\Omega\pm 1.5\%$	$B(25/50)=3434K\pm 2\%$	ABS Cap (8-26.5)
2	A-1454	$R(-1)=31.36K\Omega\pm 2.7\%$	$B(25/50)=3434K\pm 2\%$	ABS Cap (8-26)
3	A-1455	$R(25)=10K\Omega\pm 5\%$	$B(25/50)=3933K\pm 2\%$	Cu Case (6-25)
4	A-1456	$R(25)=10K\Omega\pm 5\%$	$B(25/50)=3933K\pm 2\%$	Epoxy