

AATM Antunes Controls

DIVISION OF A.J.ANTUNES & CO. • ISO 9001:2000 CERTIFIED



Enclosed is our complete line of products.

Antunes Controls is continually developing new products to meet the needs of our customers. We also custom design and manufacture electronic controls for O.E.M. accounts. We are more than willing to work with you to design and manufacture a control that will meet your specifications. Please contact us if you have any questions or if we can be of any service at 630-784-1000.

SUGGESTED LIST PRICE

**Effective:
January 1, 2004**

A.J. ANTUNES & CO.

QUALITY STATEMENT

A.J. Antunes & Co. is a prominent worldwide manufacturer serving diverse industries and markets.

We are committed to the highest standards for innovative design, advanced technology and quality products. Our products will always be safe, reliable and efficient. All of our employees are committed to customer satisfaction and continuous improvement. Our organization recognizes that our employees are our most important resource. Therefore, we believe in training, education and growth opportunities for all of our employees in order to create a knowledgeable, productive and loyal work force.



AIR SWITCHES

MODEL JD-2



SPECIFICATIONS	SPRING COLOR	RANGES		PART NO.	LIST PRICE
		w.c.	mm/w.c.		
Automatic Reset					
Differential • Vacuum	Blue	.07"-1.7"	2-43	801111301	\$86.35
Pressure	Grey	.1"-4"	3-100	801111302	\$75.45
Maximum Pressure	Red	.1"-24"	3-600	801111303	\$75.45
Surge: 3 psi	Purple	.1"-10"	3-250	801111310	\$86.35
Maximum Ambient	Orange	5"-35"	125-875	801111315	\$86.35
Temperature: 140°F/60°C					
Minimum Ambient					
Temperature: -40°F/-40°C					
Dust Proof Kit: Part No. 808000304 \$6.00 (List)					
DIMENSIONS:					
		Diameter	4.02"	(103 mm)	
		Depth	4"	(102 mm)	
		Height	5"	(127 mm)	
		Shpg.Wt.	1 lb.	(.45 Kilos)	

MODEL SMD



SPECIFICATIONS	CONNECTION	RANGES		PART NO.	LIST PRICE
		w.c.	mm/w.c.		
Automatic Reset					
Differential • Vacuum	Comp. Fittings	.17"-6"	4.25-100	8021204002	\$60.20
Pressure	1/8" NPT	.17"-6"	4.25-100	8021204007	\$56.10
Maximum Pressure	1/4" Hose Barb	.17"-6"	4.25-100	8021204014	\$59.20
Surge: 20" W.C.					
Ambient Temperature: -40°F to 170°F					
DIMENSIONS:					
		Diameter	3.66"	(93 mm)	
		Height	2.87"	(73 mm)	
		Shpg.Wt.	1 lb.	(.45 Kilos)	

MODEL SML



SPECIFICATIONS	CONNECTION	RANGES		PART NO.	LIST PRICE
		w.c.	mm/w.c.		
Automatic Reset					
Differential • Vacuum	1/8" NPT	.05"-1"	1.25-25	8221210003	\$59.70
Pressure	Comp. Fittings	.05"-1"	1.25-25	8221210034	\$63.75
Maximum Pressure	1/4" Hose Barb	.05"-1"	1.25-25	8221210041	\$62.75
Surge: 20" W.C.	1/8" NPT	.05"-9"	1.25-225	8221212002	\$59.70
Ambient Temperature: -40°F to 170°F	Comp. Fittings	.05"-9"	1.25-225	8221212022	\$63.75
	1/4" Hose Barb	.05"-9"	1.25-225	8221212040	\$62.75
DIMENSIONS:					
		Diameter	4.56"	(116 mm)	
		Height	2.24"	(57 mm)	
		Shpg.Wt.	1 lb.	(.45 Kilos)	

MODEL SMR



SPECIFICATIONS	CONNECTION	RANGES		PART NO.	LIST PRICE
		w.c.	mm/w.c.		
Manual Reset					
Differential • Vacuum	1/4" Hose Barb	.17"-6"	4.25-100	8621204001	\$92.85
Pressure	Comp. Fittings	.17"-6"	4.25-100	8621204002	\$93.85
Maximum Pressure	1/8" NPT	.17"-6"	4.25-100	8621204003	\$89.80
Surge: 20" W.C.					
Ambient Temperature: -40°F to 170°F					
DIMENSIONS:					
		Diameter	3.59"	(91 mm)	
		Height	3"	(76 mm)	
		Shpg.Wt.	1 lb.	(.45 Kilos)	

ELECTRICAL RATING
(All Air Switches)
10 Amps at 125 Vac

5 Amps at 250 Vac
1/8 HP at 125 Vac
1/4 HP at 250 Vac
Pilot Duty 125 VA at 125/250 Vac

APPROVALS:
U.L FILE No. MH8009
C.S.A. FILE No. LR25144

*F.M. SERIAL No.
19797
On Selected models only.
Contact factory

SINGLE GAS SWITCHES (MODELS A & H)

MODEL HGP-A or LGP-A



SPECIFICATIONS

Manual Reset
 Maximum Pressure
 Surge: 10 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mm/w.c.	(HGP-A)
2"-16"	50-400	803112601
5"-28"	125-700	803112602
10"-50"	250-1250	803112603

PART NO.

LOW RANGES

w.c.	mm/w.c.	(LGP-A)
1"-6"	25-150	803112501
1"-35"	25-875	803112509
2"-14"	50-350	803112502
6"-24"	150-600	803112503
10"-50"	250-1250	803112504
2"-20"	50-500	803112506

PART NO.

LIST PRICE

\$110.40

DIMENSIONS:

Diameter 4.02" (103 mm)
 Height 4.02" (103 mm)
 Shpg. Wt. 2 lbs. (.9 Kilos)

MODEL RHGP-A or RLGP-A



SPECIFICATIONS

Automatic Reset
 Maximum Pressure
 Surge: 10 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mm/w.c.	(RHGP-A)
2"-16"	50-400	803112801
5"-28"	125-700	803112802
10"-50"	250-1250	803112803

PART NO.

LOW RANGES

w.c.	mm/w.c.	(RLGP-A)
1"-6"	25-150	803112701
2"-14"	50-350	803112702
6"-24"	150-600	803112703
10"-50"	250-1250	803112704

PART NO.

LIST PRICE

\$104.00

DIMENSIONS:

Diameter 4.02" (103 mm)
 Height 4.02" (103 mm)
 Shpg. Wt. 2 lbs. (.9 Kilos)

MODEL HGP-H or LGP-H



SPECIFICATIONS

Manual Reset
 Maximum Pressure
 Surge: 35 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

PSI	BAR	(HGP-H)
1-7	.07-.48	803113201
6-15	.41-1.03	803113202

PART NO.

LOW RANGES

PSI	BAR	(LGP-H)
1-7	.07-.48	803113101
6-15	.41-1.03	803113102

PART NO.

LIST PRICE

\$128.55

DIMENSIONS:

Diameter 4.02" (103 mm)
 Height 3.62" (92 mm)
 Shpg. Wt. 2 lbs. (.9 Kilos)

MODEL RHGP-H or RLGP-H



SPECIFICATIONS

Automatic Reset
 Maximum Pressure
 Surge: 35 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

PSI	BAR	(RHGP-H)
1-7	.07-.48	803113401
6-15	.41-1.03	803113402

PART NO.

LOW RANGES

PSI	BAR	(RLGP-H)
1-7	.07-.48	803113301
6-15	.41-1.03	803113302

PART NO.

LIST PRICE

\$124.40

DIMENSIONS:

Diameter 4.02" (103 mm)
 Height 3.62" (92 mm)
 Shpg. Wt. 2 lbs. (.9 Kilos)

ELECTRICAL RATING

(All Model-A & H Gas Switches)
 10 Amps at 125 Vac
 5 Amps at 250 Vac
 Pilot Duty 125 VA at 125/250 Vac

APPROVALS:

U.L. FILE No. MH8009
 C.S.A. FILE No. LR25144
 *F.M. SERIAL No. 19797

SINGLE GAS SWITCHES (MODELS G & R)

MODEL HGP-G or LGP-G



SPECIFICATIONS

Manual Reset
 Maximum Pressure
 Surge: 15 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mbar/w.c.	(HGP-G)
2"-20"	5-50	8101111202
8"-35"	18-87	8101111303
10"-60"	25-150	8101111407

PART NO.

LIST PRICE

\$73.45

LOW RANGES

w.c.	mbar/w.c.	(LGP-G)
1"-20"	3-50	8103116202
5"-30"	13-75	8103116303
7"-55"	17-136	8103116407

PART NO.

DIMENSIONS:

Diameter 3.031" (77 mm)
 Height 2.665" (67 mm)
 Shpg. Wt. .5 lbs. (.225 Kilos)

MODEL RHGP-G or RLGP-G



SPECIFICATIONS

Automatic Reset
 Maximum Pressure
 Surge: 15 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mbar/w.c.	(RHGP-G)
.8"-4"	3-10	8102111102
2"-20"	5-50	8102111203
5"-35"	13-87	8102111304
PSI	BAR	
1-4	.07-.28	8102113005

PART NO.

LIST PRICE

\$66.30

LOW RANGES

w.c.	mbar/w.c.	(RLGP-G)
.5"-4"	1-10	8104116102
1"-20"	3-50	8104116203
5"-30"	13-75	8104116304
PSI	BAR	
1-4	.07-.28	8104118005

PART NO.

DIMENSIONS:

Diameter 3.031" (77 mm)
 Height 2.665" (67 mm)
 Shpg. Wt. .5 lbs. (.225 Kilos)

**MODEL RHGP-R or RLGP-R
 HGP-R OR LGP-R**



SPECIFICATIONS

Manual or Automatic
 Reset
 Maximum Pressure
 Surge: 15 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C
 Hermedically sealed relay
 rated: 1/4 Amp. Max.
 24 VDC Max.

Contact Antunes Controls
 for ranges and part
 numbers.

LIST PRICE

\$90.80

DIMENSIONS:

Diameter 3.031" (77 mm)
 Height 2.665" (67 mm)
 Shpg. Wt. .5 lbs. (.225 Kilos)

All standard ranges
 available.

ELECTRICAL RATING
 (All Model-G Gas Switches)
 S.P.D.T Electrical Switch
 10 Amps, 1/3 HP 125 or 250 Vac
 1/2 Amp, 125 VDC
 1/4 Amp, 250 VDC
 4 Amps, 125 Vac L

OPTIONS
 IP-65 Kit Available
 - Part No. 808000404
 \$5.00 (List)
 Neon Lamp Indicator
 - Part No. 808000139
 \$5.00 (List)
 4-Pin DIN Connector
 Side Mounting

APPROVALS:
 UL/CUL File No. MH8009
 F.M. Serial No. 19797
 CE

SINGLE GAS SWITCHES (MODEL D)

MODEL HGP-D or LGP-D



SPECIFICATIONS

Manual Reset
 DPDT Elec. Switch
 Maximum Pressure
 Surge: 10 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mm/w.c.
5"-28"	125-700
10"-50"	250-1250

PART NO.

(HGP-D)
 803113801
 803113802

LIST PRICE

\$199.95

LOW RANGES

w.c.	mm/w.c.
2"-14"	50-350
10"-50"	250-1250

PART NO.

(LGP-D)
 803113901
 803113902

DIMENSIONS:

Diameter	4.02"	(103 mm)
Height	4.02"	(103 mm)
Shpg. Wt.	2 lbs.	(.9 Kilos)

MODEL RHGP-D or RLGP-D



SPECIFICATIONS

Automatic Reset
 DPDT Elec. Switch
 Maximum Pressure
 Surge: 10 psi
 Maximum Ambient
 Temperature:
 140°F/60°C
 Minimum Ambient
 Temperature:
 -40°F/-40°C

HIGH RANGES

w.c.	mm/w.c.
5"-28"	125-700
10"-50"	250-1250

PART NO.

(RHGP-D)
 803114001
 803114002

LIST PRICE

\$188.40

LOW RANGES

w.c.	mm/w.c.
2"-14"	50-350
10"-50"	250-1250

PART NO.

(RLGP-D)
 803114101
 803114102

DIMENSIONS:

Diameter	4.02"	(103 mm)
Height	4.02"	(103 mm)
Shpg. Wt.	2 lbs.	(.9 Kilos)

SHEET METAL GAS

MODEL SMG



SPECIFICATIONS

Automatic Reset
 Differential • Vacuum
 Maximum Pressure
 Surge: 20" W.C.
 Ambient Temperature:
 -40°F to 170°F

SWITCH DIFFERENTIAL AT 70°F.

Differential	Operating Pressure
0.5" W.C.	6" W.C.
1.0" W.C.	12" W.C.

LIST PRICE

\$67.70

RANGE

.5"-6.0" W.C.

PART NO.

8521101001

ALL MODELS

Maximum Surge Pressure 20" W.C.
 Maximum Ambient Temperature 170 °F
 Minimum Ambient Temperature -40°F

OPTIONAL (Fittings)

1/4" Barb
 1/4" Tube
 1/4" Compression

Contact Antunes Controls for custom switches.

ELECTRICAL RATING

(Model SMG)
 10A @ 125,
 8A @ 250,
 7A @ 277 VAC
 1/8 HP @ 125 VAC
 1/4 HP @ 250 VAC
 Pilot Duty
 125VA @ 125/277 VAC

ELECTRICAL RATING

(All Model-D Gas Switches)
 D.P.D.T. Electrical Switch
 4 Amps at 125, 250 1/8 HP 125 Vac
 1/4 HP 250 Vac, 125 VA
 Pilot Duty 125 or 250 Vac

APPROVALS:

U.L. File No. MH8009
 C.S.A. FILE No. LR25144
 F.M. SERIAL No. 19797

DOUBLE GAS SWITCHES (MODELS A & D)

MODEL HLGP-A



<u>SPECIFICATIONS</u>	<u>HIGH RANGES</u>		<u>LOW RANGES</u>		<u>PART NO.</u> (HLGP-A)
	w.c.	mm/w.c.	w.c.	mm/w.c.	
Manual Reset	2"-16"	50-400	1"-6"	25-150	804111701
Maximum Pressure	5"-28"	125-700	1"-6"	25-150	804111702
Surge: 10 psi	10"-50"	250-1250	1"-6"	25-150	804111703
Maximum Ambient Temperature:	2"-16"	50-400	2"-14"	50-350	804111704
140°F/60°C	5"-28"	125-700	2"-14"	50-350	804111705
Minimum Ambient Temperature:	10"-50"	250-1250	2"-14"	50-350	804111706
-40°F/-40°C	5"-28"	125-700	6"-24"	150-600	804111707
	10"-50"	250-1250	6"-24"	150-600	804111708
	10"-50"	250-1250	10"-50"	250-1250	804111709

<u>DIMENSIONS:</u>		<u>LIST PRICE</u>
Width	5.62" (143 mm)	\$219.30
Depth	5.37" (136 mm)	
Height	4.25" (108 mm)	
Shpg. Wt.	4 lbs. (1.8 Kilos)	

MODEL RHLGP-A



<u>SPECIFICATIONS</u>	<u>HIGH RANGES</u>		<u>LOW RANGES</u>		<u>PART NO.</u> (RHLGP-A)
	w.c.	mm/w.c.	w.c.	mm/w.c.	
Automatic Reset	2"-16"	50-400	1"-6"	25-150	804112101
Maximum Pressure	5"-28"	125-700	1"-6"	25-150	804112102
Surge: 10 psi	10"-50"	250-1250	1"-6"	25-150	804112103
Maximum Ambient Temperature:	2"-16"	50-400	2"-14"	50-350	804112104
140°F/60°C	5"-28"	125-700	2"-14"	50-350	804112105
Minimum Ambient Temperature:	10"-50"	250-1250	2"-14"	50-350	804112106
-40°F/-40°C	5"-28"	125-700	6"-24"	150-600	804112107
	10"-50"	250-1250	6"-24"	150-600	804112108
	10"-50"	250-1250	10"-50"	250-1250	804112109

<u>DIMENSIONS:</u>		<u>LIST PRICE</u>
Width	5.62" (143 mm)	\$208.00
Depth	5.37" (136 mm)	
Height	4.25" (108 mm)	
Shpg. Wt.	4 lbs. (1.8 Kilos)	

MODEL HLGP-D



<u>SPECIFICATIONS</u>	<u>HIGH RANGES</u>		<u>LOW RANGES</u>		<u>PART NO.</u> (HLGP-D)
	w.c.	mm/w.c.	w.c.	mm/w.c.	
Manual Reset	5"-28"	125-700	2"-14"	50-350	804114201
Maximum Pressure	10"-50"	250-1250	2"-14"	50-350	804114202
Surge: 10 psi	10"-50"	250-1250	10"-50"	250-1250	804114203

<u>DIMENSIONS:</u>		<u>LIST PRICE</u>
Width	5.62" (143 mm)	\$347.45
Depth	5.37" (136 mm)	
Height	4.25" (108 mm)	
Shpg. Wt.	4 lbs. (1.8 Kilos)	

ELECTRICAL RATING
(All Model-A Gas Switches)
10 Amps @ 125 Vac
5 Amps @ 250 Vac
Pilot Duty 125 VA @ 125/250 Vac

ELECTRICAL RATING
(All Model-D Gas Switches)
D.P.D.T. Electrical Switch
10 Amps @ 125, 250, 1/8 HP 125 Vac
1/4 HP 250 Vac, 125 VA
Pilot Duty 125 or 250 Vac

APPROVALS:
U.L. FILE No. MH8009
C.S.A FILE No. LR25144
F.M. SERIAL No. 19797

DOUBLE GAS SWITCHES (MODEL D)

MODEL RHLGP-D



SPECIFICATIONS

Automatic Reset
 Maximum Pressure Surge: 10 psi
 Maximum Ambient Temperature: 140°F/60°C
 Minimum Ambient Temperature: -40°F/-40°C
 DPDT Electrical Switch Isolated

HIGH RANGES

w.c. 5"-28"
 mm/w.c. 125-700
 10"-50"
 250-1250
 10"-50"

LOW RANGES

w.c. 2"-14"
 mm/w.c. 50-350
 2"-14"
 50-350
 10"-50"
 250-1250

PART NO.

(RHLGP-D)
 804114301
 804114302
 804114303

DIMENSIONS:

Width 5.62" (143 mm)
 Depth 5.37" (136 mm)
 Height 4.25" (108 mm)
 Shpg. Wt. 4 lbs. (1.8 Kilos)

LIST PRICE

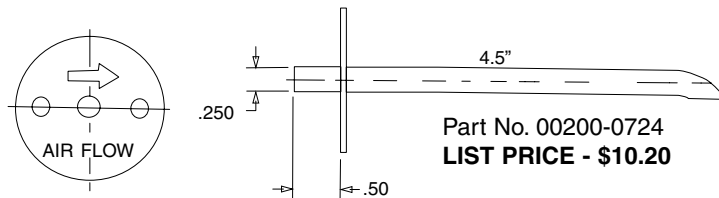
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ELECTRICAL RATING
 (All Model-D Gas Switches)
 D.P.D.T. Electrical Switch
 10 Amps @ 125, 250, 1/8 HP 125 Vac
 1/4 HP 250 Vac, 125 VA
 Pilot Duty 125 or 250 Vac

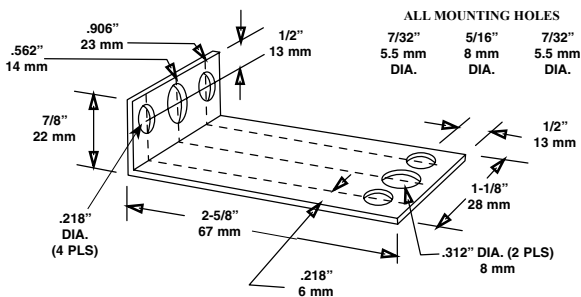
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 F.M. SERIAL No. 19797

ACCESSORIES

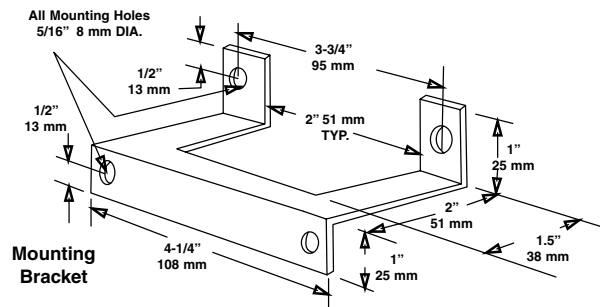
AIR SENSOR TUBE



ACCESSORIES MOUNTING BRACKETS FOR PRESSURE SWITCHES

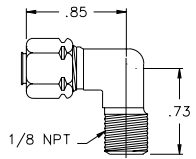
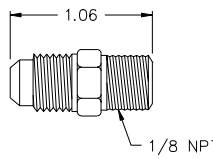
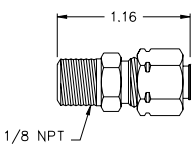
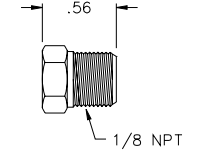
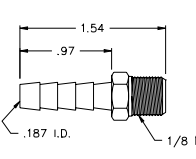
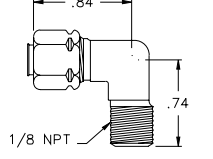
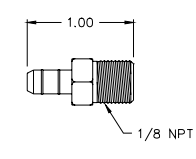
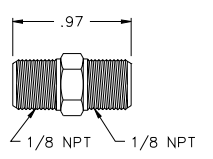
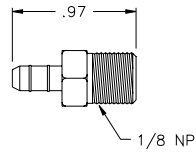
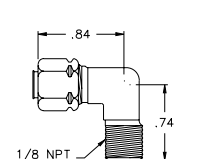
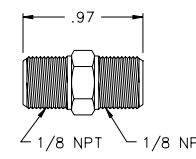
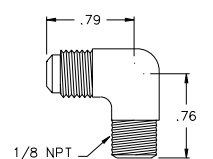
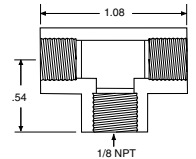
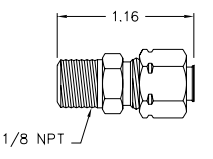
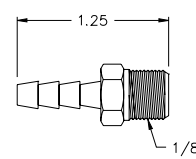
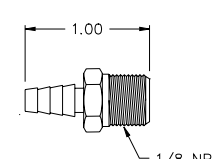


Part No. 808000303 **LIST PRICE \$3.60**
 Used On: All Single Gas Pressure Switches and Model JD-2



Part No. 808000302 **LIST PRICE \$4.85**

FITTINGS AND ORIFICES

 <p>20600-0107 Fitting-Elbow, Male Compression Material - Brass Tube size - 1/4" Flow Dia. - .188" LIST PRICE - \$1.00</p>	 <p>00200-0301 Fitting Flare 1/4" O.D. Tube x 1/8" NPT Male With #80 Orifice LIST PRICE - \$3.00</p>
 <p>20600-0111 Fitting 1/4" Male Compression LIST PRICE - \$.88</p>	 <p>20600-0118 Fitting - Plug, HEX 1/8 NPT Material - Brass LIST PRICE - \$.46</p>
 <p>20600-0112 Fitting 1/4" Hose Barb Material - Brass LIST PRICE - \$.56</p>	 <p>20600-0119 Fitting - Anchor 1/8 NPT Female Straight Thread 5/8"-18 Flow Dia. - .328" LIST PRICE - \$4.85</p>
 <p>20600-0147 Fitting Double Barb 3/8" O.D. Tube Material - Brass Flow Dia. - .187" LIST PRICE - \$.89</p>	 <p>00200-0300 Fitting-Nipple, HEX 1/8" NPT With #80 Orifice LIST PRICE - \$4.95</p>
 <p>20600-0114 Fitting Double Barb 1/4" O.D. Tube Material - Brass Flow Dia. - .120" LIST PRICE - \$.67</p>	 <p>00200-0302 Fitting Compression (Elbow) 1/4" Tube x 1/8" NPT With #80 Orifice LIST PRICE - \$3.98</p>
 <p>20600-0115 Fitting-Nipple, HEX 1/8" NPT Material - Brass Flow Dia. - .220" LIST PRICE - \$.51</p>	 <p>00200-0304 Fitting Compression (Elbow) 1/4" Tube x 1/8" NPT With #80 Orifice LIST PRICE - \$3.98</p>
 <p>20600-0117 Fitting-T, Union 1/8" NPT Material - Brass Flow Dia. - .328" LIST PRICE - \$1.70</p>	 <p>00200-0305 Fitting Compression (Elbow) 1/4" Tube x 1/8" NPT With #80 Orifice LIST PRICE - \$3.25</p>
 <p>20600-0120 Fitting 3/16" Hose Barb Material - Brass Flow Dia. - .125 LIST PRICE - \$1.20</p>	 <p>20600-0125 Fitting-Barb 1/4" ID Hose Material - Brass Flow Dia. - .125 LIST PRICE - \$1.50</p>

TEMPERATURE CONTROLLERS

MODEL TTC



SPECIFICATIONS

ACCURACY:
1% Full Scale \pm 1 LSD
POWER:
12 Vac DC
PACKAGE:
Panel Mount,
Epoxy Encapsulated
OUTPUT:
10 Amp Relay
(Resistive Load)

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART No.</u>
50°-940°F	“J” Type	8051310040
50°-940°F	“K” Type	8051320010
10°-530°C	“J” Type	8051410140
10°-530°C	“K” Type	8051420110

OPTIONAL STEP DOWN TRANSFORMERS

<u>PART No.</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
808000001	120 to 12 Vac	\$20.40
808000003	220 to 12 Vac	\$20.40

DIMENSIONS:

Width	3.1”	(78 mm)
Depth	2.0”	(51 mm)
Height	1.4”	(32 mm)
Panel Cut Out:	2.32” x 1.13” (59 mm x 29 mm)	

LIST PRICE

\$175.95

MODEL TCE



SPECIFICATIONS

ACCURACY:
1% Full Scale \pm 1 LSD
POWER:
115 Vac
PACKAGE:
1/8 DIN Panel Mount,
Anodized Aluminum Case
OUTPUT:
3 Amp Relay
(Resistive Load)

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART No.</u>
50°-940°F	“J” Type	8253310030
50°-940°F	“K” Type	8253320070
10°-530°C	“J” Type	8253410040
10°-530°C	“K” Type	8253420060

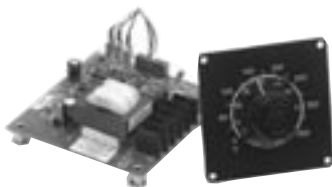
DIMENSIONS:

Width	4.03”	(102 mm)
Depth	2.11”	(76 mm)
Height	4.13”	(103 mm)
Panel Cut Out:	3.62” x 1.77” (92 mm x 45 mm)	

LIST PRICE

\$205.10

MODEL TCO



SPECIFICATIONS

SENSOR Thermocouple
(Type “J” or “K”)
PACKAGE: Open Board with
Remote Potentiometer 24”
POWER: 120 Vac, 230 Vac,
24 Vac, 12 Vac
OUTPUT: S.P.D.T 10 Amp
Relay (Resistive Load)

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART No.</u>
0-375°F	J	TBD
70-150°F	J	TBD
150-400°F	J	TBD

DIMENSIONS:

Width	3.88”	(99 mm)
Depth	3.63”	(92 mm)
Height	1.20”	(30 mm)

LIST PRICE

\$118.35

ON/OFF CONTROL

Contact Antunes Controls for
Additional ranges and outputs.

Agency Approval: UR/CUR

HIGH LIMIT TEMPERATURE CONTROLLERS

MODEL TCS



SPECIFICATIONS

ACCURACY:
1% Full Scale \pm 1 LSD
POWER:
115 Vac
PACKAGE:
1/16 DIN Panel Mount,
Anodized Aluminum Case
OUTPUT:
8 Amp Relay
(Resistive Load)

HIGH LIMIT WITH LOCK KNOB

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART NO.</u>
200°-1000°F	“J” Type	8453110270
200°-1000°F	“K” Type	8453120240
1000°-2000°F	“K” Type	8453220250
100°-1100°C	“K” Type	8453320260

DIMENSIONS:

Width	1.94”	(49 mm)
Depth	1.94”	(49 mm)
Height	5.35”	(128 mm)
Panel Cut Out:	1.77” x 1.77” (45 mm x 45 mm)	

LIST PRICE

\$240.00

MODEL HLC HIGH LIMIT CONTROL



SPECIFICATIONS

INPUT POWER:
24, 115 or 230 Vac 50/60 Hz
OUTPUT: S.P.S.T. 8 Amps
HI LIMIT RANGE:
100-220°/180-300°F Adjustable
SENSOR:
10K Thermistor (dual input)
10 or 20 foot lengths

<u>Models</u>	<u>Sensor</u>	<u>Part No.</u>	<u>List Price</u>
HLC 24 Vac	15 foot - 220°	8512130013	\$165.00
HLC 120 Vac	15 foot - 220°	8513130053	\$190.00
HLC 24 Vac	15 foot - 300°	851223023	\$185.00
HLC 120 Vac	15 foot - 300°	8513230063	\$210.00
	15 foot - 105°C	808000145	\$15.50
	15 foot - 150°C	808000147	\$22.85

DIMENSIONS:

Width	3.47”	(88 mm)
Depth	3.14”	(79 mm)
Height	5.12”	(130 mm)
Space between Mounting Holes:	2.97” (75 mm)	

AGENCY APPROVALS: UL 353/991 FM

TEMPERATURE DISPLAYS

MODEL TTD



SPECIFICATIONS

ACCURACY:
1% Full Scale \pm 1 LSD
POWER:
12 Vac DC
PACKAGE:
Panel Mount,
Epoxy Encapsulated
OUTPUT:
10 Amp Relay
(Resistive Load)

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART NO.</u>
50°-940°F	"J" Type	8151310010
50°-940°F	"K" Type	8151320020
10°-530°C	"J" Type	8151410030
10°-530°C	"K" Type	8151420040

OPTIONAL STEP DOWN TRANSFORMERS

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
808000001	120 to 12 Vac	\$20.40
808000003	220 to 12 Vac	\$20.40

DIMENSIONS:

Width	3.1"	(78 mm)	LIST PRICE \$127.50
Depth	2.0"	(51 mm)	
Height	1.4"	(32 mm)	
Panel Cut Out:	2.32" x 1.13" (59 mm x 29 mm)		

MODEL TDE



SPECIFICATIONS

ACCURACY:
1% Full Scale \pm 1 LSD
POWER:
115 Vac
PACKAGE:
1/8 DIN Panel Mount,
Anodized Aluminum Case
OUTPUT:
3 Amp Relay
(Resistive Load)

<u>TEMP. RANGE</u>	<u>THERMOCOUPLE</u>	<u>PART NO.</u>
50°-940°F	"J" Type	8353310010
50°-940°F	"K" Type	8353320030
10°-530°C	"J" Type	8353410020
10°-530°C	"K" Type	8353420040

DIMENSIONS:

Width	4.03"	(102 mm)	LIST PRICE \$160.15
Depth	2.11"	(76 mm)	
Height	4.13"	(103 mm)	
Panel Cut Out:	3.62" x 1.77" (92 mm x 45 mm)		

FREEZESTAT/LIMIT CONTROL

MODEL DF

Digital
Freezestat



SPECIFICATIONS

SENSOR TYPE:
Thermistor Length (10 ft. or
20 ft.)
ADJUSTABLE TIME: 1-10 Minutes
(5° Increments)
ADJUSTABLE TEMPERATURE:
30-75°F (5° Increments)
LED INDICATOR: For Fault
POWER INPUT: 24 Vac 50/60 Hz/
115 VAC 50/60 Hz
OUTPUT RATINGS:
8 Amp SPDT Relays 1/4" Spade
Terminal
OPTIONAL: Full Enclosure (see
photo)
DIMENSIONS: 3"x3" open board
conformal/mountable to any flat
surface.
AGENCY APPROVAL: UL/CUL

SENSOR 105°C

VOLTAGE

PART NO.

10 ft.	24	8562120010
20 ft.	24	8562140020
10 ft.	115	8563120030
20 ft.	115	8563140040
With Front Cover		
10 ft.	24	8562120071
20 ft.	24	8562140081
10 ft.	115	8563120051
20 ft.	115	8563140061

150°C rated sensor available upon request. Contact factory for details.

MODEL TFH



SPECIFICATIONS

SENSOR TYPE
Thermistor Length (10 ft.)
ACCURACY: +/- 3°F of Set
Point
POWER INPUT: 24 Vac
(Optional: 120 Vac or 230
Vac)
CONTROL OPERATION:
LOW LIMIT - Closes on
Rise
HIGH LIMIT - Opens
on Rise
OUTPUT RATINGS:
Two - 8 Amp SPDT
Relays (Resistive Load)

SENSOR

Voltage

PART NO.

LIST PRICE

15 Ft.	115	8503130033	\$235.00
15 Ft.	24	8502130013	\$210.00

TEMPERATURE RANGE:
LOW LIMIT: 30° to 65°F
HIGH LIMIT: 100° to 220°F
TIME DELAY RANGE:
1 to 8.5 Minutes
OPERATING TEMPERATURE:
-30° to 140°F (-35° to 60°C)
CONNECTIONS: 1/4" Quick
Connects (Optional 6" Wire
Leads)
PACKAGE: "C" Bracket

DIMENSIONS:

Width	5.87"	(149 mm)
Depth	3.1"	(79 mm)
Height	5.12"	(130 mm)

AGENCY APPROVALS:

UL 353/991
FM

MODEL DFL



SPECIFICATIONS

SENSOR TYPE
Thermistor Length (10 ft.)
ACCURACY: +/- 3°F of
Set Point
POWER INPUT: 24 Vac
(Optional: 120 Vac or 230
Vac)
CONTROL OPERATION:
LOW LIMIT - Closes on
Rise
HIGH LIMIT - Opens
on Rise
OUTPUT RATINGS:
Two - SPST Relays
15 Amps @ 230 Vac
(Resistive Load)
OPTIONAL:
Two - SPDT Relays

PART NO.

LIST PRICE

DIMENSIONS:

8742130013 **\$168.30**

TEMPERATURE RANGE:
FAN: 80° to 120°F (25° to 50°C)
HIGH LIMIT: 150° to 300°F (65° to 145°C)
DIFFERENTIAL ADJUSTMENT RANGE:
FAN: 5-50°F
HIGH LIMIT: 1° to 15°F
OPERATING TEMPERATURE:
-30° to 140°F (-35° to 60°C)
CONNECTIONS: 1/4" Quick Connects
(Optional 6" Wire Leads)
PACKAGE: "C" Bracket

Width	5.87"	(149 mm)
Depth	3.1"	(79 mm)
Height	5.12"	(130 mm)

MODEL SCT
Single Countdown Timer



SPECIFICATIONS

INPUT: Time programmable from the front of the unit
 POWER: 12 Vac @ 0.25 Amps
 ACCURACY: 1% Full Scale
 CONTROL METHOD: On/Off
 OUTPUT: 3 Amp relay or optional 6-14 VCD @ 30 MA
 OPTIONAL: "End of Cycle" audio alarm
 CONNECTIONS: Quick disconnect or optional wire leads

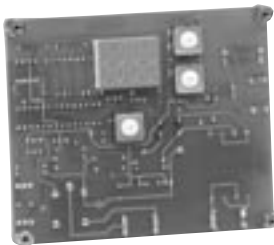
DIMENSIONS:

Width 3.5" (89 mm)
 Depth 1.3" (32 mm)
 Height 2.8" (71 mm)

<u>PROGRAMMING TIME RANGES</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>LIST PRICE</u>
---------------------------------------	------------------------	---------------------------	--------------------------

99:59 Min/Sec	8601200060	Open board/relay output	\$83.65
99:59 Hrs/Min	TBD	Open board/relay output	\$83.65
99:59 Min/Sec	8601200070	Front plate/relay output	\$91.80
99:59 Min/Sec	8601000102	Front plate/relay output	\$91.80
99:59 Min/Sec	8600210112	Front plate/audio output	\$91.80

MODEL CDT
Countdown Digital Timer



SPECIFICATIONS

INPUT POWER: 90-130 Vac 50/60 Hz
 CONTROL OPERATION: 0-99 minutes/seconds count down
 Three Keys: UP & DOWN (set point adjustment) Start/Stop (timer operation)
 OUTPUTS: Audible Alarm (Piezo type 2KHz/+ -10% 85bd sound level)
 Control Relay (UL recognized S.P.S.T. normally open rated at 5 A 230 Vac)
 DISPLAY: Red LED 7 segment, 2 digits plus decimal point

Other options available upon request. Consult Antunes for more details.

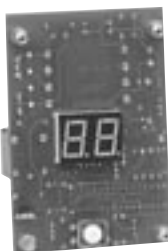
DIMENSIONS:

Width 4.25" (108 mm)
 Length 3.5" (89 mm)
 Height 1.62" (41 mm)

<u>MODELS</u>	<u>PART NO.</u>	<u>LIST PRICE</u>
----------------------	------------------------	--------------------------

90-130 Vac 50/60 Hz with Relay output 0-90 seconds	8060100049	\$68.35
90-130 Vac 50/60 Hz with audio output 0-99 minutes	8060100050	\$66.30

MODEL ACT
Audible Countdown Timer



SPECIFICATIONS

INPUT POWER: 120 Vac 50/60 Hz
 DISPLAY: 7-segment red LED 2 digit display
 CONTROL OPERATION: 0-15 minutes count down audible alarm at end of cycle
 INPUT KEY: One key functions: Start & Stop/Program mode depress for 3 seconds Display will scroll down the selected time from 15 then ramp around.
 OUTPUT: Audible buzzer

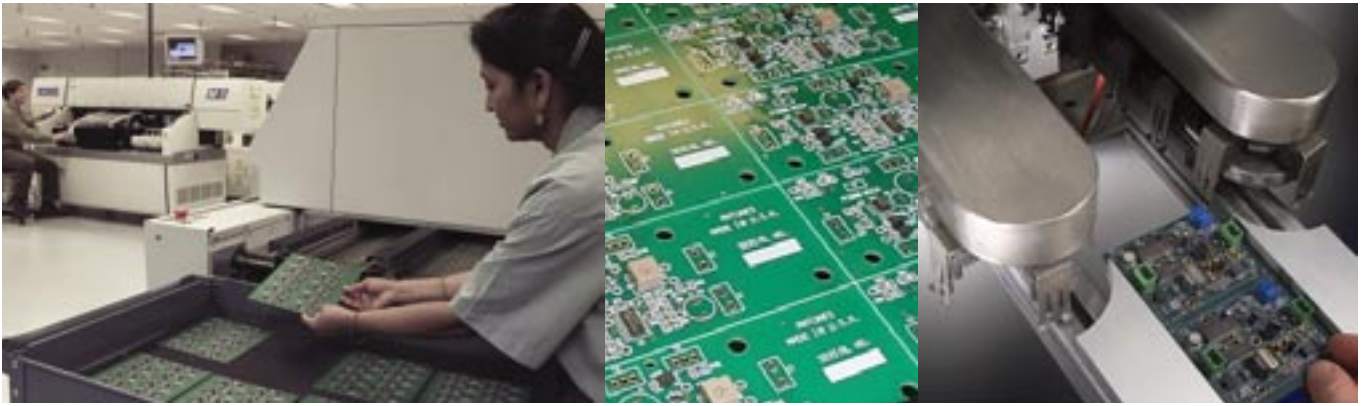
<u>MODELS</u>	<u>LIST PRICE</u>
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120 Vac 0-15 Minutes **\$47.45**

Other options available upon request. Consult Antunes for more details.

DIMENSIONS:

Width 2.5" (64 mm)
 Length 3.5" (89 mm)



CUSTOM DESIGN AND MANUFACTURE OF ELECTRONIC CONTROLS

Antunes Controls, a division of A.J. Antunes & Co., offers custom design and manufacturing of custom electronic controls to customer specifications.

This service includes custom:

- Printed Circuit Boards
- Software
- Control/Display panels

In addition, existing products can be modified to suit your needs.

Antunes Controls will supply the above from concept through manufacturing. Some typical applications are:

- Time/temperature control
- Watt regulation
- Sequencers
- Stepper motor positioners
- Timers (with and without control)
- Temperature controls
- Digital indicators
- Mechanical pressure switches
- Transducers

Additional applications are available.

BENEFITS OF CUSTOM DESIGN

- Because only your desired features are provided, costs are reduced.
- The required features, functions, options can be on one printed circuit card, reducing costs.
- Plug in options, functions, features reduce costs and inventory.
- Installation is reduced by eliminating wiring and cabling.
- Low development charges for agreed upon production quantities.
- Generally, for custom designs, space requirements are reduced.
- Use of the latest high quality electronic components and conservative design, coupled with high quality control standards provide greater reliability.
- Timely delivery of controls to meet your production requirements.

THE GENERAL PROCEDURE FOR CUSTOM DEVELOPMENT IS:

1. Develop a specification.
 - A. Define functions, features, options, inputs, outputs, control, safeguards, etc.
 - B. Define printed circuit board size.
 - C. Control/display panel size, layout, and mounting arrangement.
 - D. Mounting arrangements of printed circuit board(s), panels, indicators, etc.
2. Develop a time schedule.
3. Determine pricing.
4. Design hardware and software.
5. Deliver a prototype for evaluation.
6. Modify design if necessary.
7. Timely delivery of product.

Antunes Controls is very flexible. Requirements, schedules, and production can all be arranged to fit your needs. Antunes Controls specializes in low volume production runs – as low as 100 units, up to 10,000 units. All products are designed and manufactured in-house.

Antunes Controls is ISO9001 certified. We are committed to providing Quality and Service to our customers.

Let Antunes Controls' experienced technical staff do the job for you. Our quick response and prompt service will produce equipment that will give you that "COMPETITIVE EDGE."

For further information call Antunes Controls at 630-784-1000. Ask for Dan to get your project started today.

For prompt efficient service contact your area Representative/Distributor

ALABAMA

Northern section - See Tennessee - **Capitol Sales**,
Cleveland, TN
PHONE: (423) 472-6638 FAX: (423) 886-7889
E-MAIL: Bdodom@bellsouth.net

See Tennessee - **Combustion & Controls Co., Inc.**,
Memphis, TN
PHONE: (901) 332-6077 FAX: (901) 332-6274
E-MAIL: combustioncontrols@attglobal.net

ALASKA

Hasco, Inc., 136 East 6th Ave., Anchorage, AK 99501
PHONE: (907) 276-6923 FAX: (907) 276-2305
E-MAIL: hascoinc@alaska.net

ARIZONA

See California - **Wirth Gas Equipment, Inc.**, Glendale,
CA PHONE: (213) 245-9523 FAX: (818) 243-3382
E-MAIL: wirthgas@aol.com

ARKANSAS

Advance Thermal Systems, 803 W. Barton Ave.,
West Memphis, AR 72301
PHONE: (870) 735-7555 FAX: (870) 735-2212
E-MAIL: advancetherm@earthlink.net

See Tennessee - **Combustion & Controls Co., Inc.**,
Memphis, TN
PHONE: (901) 332-6077 FAX: (901) 332-6274
E-MAIL: combustioncontrols@attglobal.net

CALIFORNIA

Northwest section - **Mechtronic Resources**,
37359 Blacow Rd., Fremont, CA 94536
PHONE: (510) 797-9787 FAX: (510) 797-9792
E-MAIL: dbrunette@mechtronic.com

Northern section - **Controlco**, 4600 Imhoof Dr. #G,
Concord, CA 94520
PHONE: (925) 602-7728 FAX: (925) 798-0127
E-MAIL: t.turner@controlco.com

Southern section - **Wirth Gas Equipment, Inc.**,
1233 W. Glenoaks Blvd., Glendale, CA 91201
PHONE: (323) 245-9523 FAX: (818) 243-3382
E-MAIL: wirthgas@aol.com

Southern section - **George T. Hall Co.**,
1605 Gene Autry Way, Anaheim, CA 92805
PHONE: (714) 939-7100 FAX: (714) 939-7110
E-MAIL: sales@georgethall.com

COLORADO

Slaybaugh-Thompson Co., 8646 W. Colfax Ave., Suite 203
Lakewood, CO 80215
PHONE: (303) 238-4379 FAX: (303) 238-4370
E-MAIL: slaythom@aol.co

CONNECTICUT

Etter Engineering Co., Inc., 1486 Highland Ave.,
Cheshire, CT 06410
PHONE: (800) 444-1962 FAX: (203) 272-9860
E-MAIL: tetter@etterengineering.com

Cannon Associates, P.O. Box 1026, Woodbury, CT 06798
(OEM only) PHONE: (203) 266-4355
FAX: (203) 266-4356
E-MAIL: cannonjmd@aol.com

DELAWARE

See Pennsylvania - **Stock Controls, Inc.**, Wayne, PA
PHONE: (800) 786-2547 FAX: (800) 786-2547

FLORIDA

Thermal Equipment Systems Inc.,
333 Falkenburg Rd. North, Suite B228, Tampa, FL 33619
PHONE: (813) 681-8910 FAX: (813) 681-9834
E-MAIL: craigswanson@thermalequip.com

Tempaco Inc., 1701 Alden Rd., Orlando, FL 32803
PHONE: (407) 898-3456 FAX: (407) 898-7316
E-MAIL: info@tempaco.com

GEORGIA

Heatco Inc., 3579 Cantrell Ind. Court, Acworth, GA 30101
PHONE: (770) 529-2000 (800) 554-1007
FAX: (770) 529-2005
E-MAIL: shankinson@heatcousa.com

HAWAII

See California - **Wirth Gas Equipment, Inc.**, Glendale, CA
PHONE: (213) 245-9523 FAX: (818) 243-3382
E-MAIL: wirthgas@aol.com

IDAHO

Control Solutions & Design, 10009 Emerald Street, Suite
125, Boise, ID 83704 PHONE: (208) 375-4422
FAX: (208) 375-4428 E-MAIL: cds.micron.net

ILLINOIS

G & O Thermal Supply Co., 5435 N. Northwest Hwy.,
Chicago, IL 60630 PHONE: (773) 763-1300
FAX: (773) 763-6898 E-MAIL: gothermal@aol.com

Marshall Wolf Automation, Inc., 923 S. Main St.,
Algonquin, IL 60102 PHONE: (847) 658-8130
FAX: (847) 658-0960
E-MAIL: sales@wolfautomation.com

INDIANA

C.M. Buck & Associates, Inc., 6850 N. Guion Rd.,
Indianapolis, IN 46268 PHONE: (317) 293-5704
FAX: (317) 293-0281 E-MAIL: sales@cmbuck.com

IOWA

Contact home office - **Antunes Controls**,
PHONE: (630) 784-1000 FAX: (630) 784-1651
E-MAIL: info@antunescontrols.com

Northwest section - **Control System Specialists**,
101 W. Highway 7, Alta, IA 51001
PHONE: (712) 284-2622 FAX: (712) 284-2615
E-MAIL: jfast@controlsyspecialists.com

KANSAS

Western section - See Colorado - **Slaybaugh-Thompson Co.**,
Lakewood, CO
PHONE: (303) 238-4379 FAX: (303) 238-4370
E-MAIL: slaythom@aol.com

Eastern section - **Heat Process & Control, Inc.**,
4518 W. 89th St., Prairie Village, KS 66207
PHONE: (913) 341-1800 FAX: (913) 341-1802

KENTUCKY

See Ohio - **McNay Equipment**, Cincinnati, OH
PHONE: (513) 489-4770 FAX: (513) 489-1470
E-MAIL: Sbagent@mcnay-equipment.com

SWH. Supply Co.

242 E. Main St. Louisville KY 440202-1295
PHONE: (502) 589-9287 FAX: (502) 585-3812
E-MAIL: swh@unidial.com
WEB: www.swhsupply.com

LOUISIANA

J & M Boiler Combustion, 6225 Benefit Dr., Baton
Rouge, LA 70809
PHONE: (225) 751-8748 FAX: (225) 752-7648
E-MAIL: boilers@aol.com

MAINE

See Connecticut - **Etter Engineering Co., Inc.**, Cheshire,
CT PHONE: (800) 444-1962 FAX: (203) 272-9860
E-MAIL: tetter@etterengineering.com

See Rhode Island - **Cannon Associates**, Warren, RI (OEM
only) PHONE: (401) 245-0850 FAX: (401) 245-0910
E-MAIL: mbattist@cannonassociates.com

MARYLAND

Northern section - See Pennsylvania - **Stock Controls**,
Wayne, PA PHONE: (800) 786-2547 FAX: (800) 786-2547

See Virginia - **L.A. Prillaman Co., Inc.**,
PHONE: (804) 798-1455 FAX: (804) 798-2861
E-MAIL: jimp@laprillaman.com

MASSACHUSETTS

Interstate Electric Equipment Co., 30 Vineland St.,
Brighton, MA 02135
PHONE: (617) 782-9000 FAX: (617) 254-2247
E-MAIL: info@interstatecontrols.com

See Connecticut - **Etter Engineering Co., Inc.**, Cheshire,
CT PHONE: (800) 444-1962 FAX: (203) 272-9860
E-MAIL: tetter@etterengineering.com

See Rhode Island - **Cannon Associates**, Warren, RI (OEM
only) PHONE: (401) 245-0850 FAX: (401) 245-0910
E-MAIL: mbattist@cannonassociates.com

MICHIGAN

Industrial Burner Systems Co., 4165 Martin Rd.,
Walled Lake, MI 48390
PHONE: (248) 363-1577 FAX: (248) 363-3725
E-MAIL: awilder@industrialburner.com

Southern section - **Cochrane Supply**, 30303 Stephenson
Hwy., Madison Heights, MI 48071
PHONE: (248) 588-9260 FAX: (248) 588-9261
E-MAIL: dcochran@cochransupply.com

Peninsula - See Wisconsin - **Marshall W. Nelson & Assoc., Inc.**,
Milwaukee, WI PHONE: (414) 332-6000
FAX: (414) 332-2400 E-MAIL: Info@mwnelson.com

MINNESOTA

Marshall W. Nelson Associates, Inc., 4155 Sibley Memorial
Hwy., Eagan, MN 55122 PHONE: (651) 890-0720
FAX: (651) 890-7009 E-MAIL: mwnelson@mwnelson.com

Minvalco Inc., 3340 Gorham Ave., Minneapolis, MN 55426
PHONE: (612) 920-0131 FAX: (612) 920-0236
E-MAIL: fred.matthews@minvalco.com

MISSISSIPPI

See Tennessee - **Combustion & Controls Co., Inc.**,
Memphis, TN
PHONE: (901) 332-6077 FAX: (901) 332-6274
E-MAIL: combustioncontrols@attglobal.net

Northern section - See Tennessee - **Capitol Sales**, Cleveland,
TN (OEM only) PHONE: (423) 472-6638
FAX: (423) 886-7889 E-MAIL: Bddodom@bellsouth.net

MISSOURI

Eastern half - **St. Louis Boiler Supply Co.**, 804 Hanley
Industrial Ct., St. Louis, MO 63144
PHONE: 800-BOILERS or (314) 962-9242
FAX: (314) 968-4356

Western section - See Kansas - **Heat Process & Control, Inc.**,
Prairie Village, KS
PHONE: (913) 341-1800 FAX: (913) 341-1802

Burner Design and Control, 1353 Baur Blvd., St. Louis, MO 63132-1987 PHONE: (314) 993-5810
FAX: (314) 993-4107 E-MAIL: sales@gobdc.com
WEB: www.gobdc.com

MONTANA

Entire state except Southwest section - contact home office-
Antunes Controls, PHONE: (630) 784-1000
FAX: (630) 784-1651 E-MAIL: info@antunescontrols.com

Southwest section - See Idaho - **Controls Solution & Design**, Boise, ID 83704 PHONE: (208) 375-4422
FAX: (208) 375-4428 E-MAIL: cds.micron.net

NEBRASKA

Entire state except Southwest section - contact home office-
Antunes Controls, PHONE: (630) 784-1000
FAX: (630) 784-1651 E-MAIL: info@antunescontrols.com

Southwest section - See Colorado - **Slaybaugh-Thompson Co.**, Lakewood, CO
PHONE: (303) 238-4379 FAX: (303) 238-4370
E-MAIL: slaythom@aol.com

Comfort Air Control, 2340 Ave I, Scottsbluff, NE 69361
PHONE: (308) 635-7729 FAX: (308) 635-0120
E-MAIL: comair@prairieweb.com

NEVADA

Northeast section - See Idaho - **Controls Solution & Design**, Boise, ID 83704 PHONE: (208) 375-4422
FAX: (208) 375-4428 E-MAIL: cds.micron.net

Northwest section - See California - **Control Technology Specialist**, Sacramento, CA PHONE: (916) 288-2700
FAX: (916) 288-2710 E-MAIL: ctscontrol@aol.com

Southern section - See California - **Wirth Gas Equipment**, Glendale, CA
PHONE: (213) 245-9523 FAX: (818) 243-3382
E-MAIL: wirthgas@aol.com

Desert Boilers & Controls, 305 St. Louis Ave, Las Vegas, NV 89102 PHONE: (702) 631-7780 FAX: (702) 646-7512 E-MAIL: desertboilers@yahoo.com

NEW HAMPSHIRE

See Connecticut - **Etter Engineering Co., Inc.**, Cheshire, CT PHONE: (800) 444-1962 FAX: (203) 272-9860
E-MAIL: tetter@etterengineering.com

See Rhode Island - **Cannon Associates**, Warren, RI (OEM only) Phone: (401) 245-0850 FAX: (401) 245-0910
E-MAIL: mbattist@cannonassociates.com

NEW JERSEY

Industrial Controls Distributors, Inc., 1776 Bloomsbury Ave., Wanamassa, NJ 07712
PHONE: (732) 918-9000 FAX: (732) 922-4417
E-MAIL: fbaldino@icdmail.com

See Pennsylvania - **Stock Controls, Inc.**, Wayne, PA
PHONE: (800) 786-2547 FAX: (610) 688-0556

See Rhode Island - **Cannon Associates**, Warren, RI (OEM only) PHONE: (401) 245-0850 FAX: (401) 245-0910
E-MAIL: mbattist@cannonassociates.com

NEW MEXICO

See Colorado - **Slaybaugh-Thompson Co.**, Lakewood, CO
PHONE: (303) 238-4379 FAX: (303) 238-4370
E-MAIL: slaythom@aol.com

NEW YORK

DBM Control Distributors, Inc., 1277 Military Road, Buffalo, NY 14217
PHONE: (716) 876-8026 FAX: (716) 876-0076
E-MAIL: dbmcontrol@pcom.net

Western section - **Martin Equipment Co.**, 8350 Main St., Williamsville, NY 14221-6104
PHONE: (716) 633-5808 FAX: (716) 633-6181
E-MAIL: martin9300@aol.com

Eastern section - See Pennsylvania - **Stock Controls**, Wayne, PA
PHONE: (800) 786-2547 FAX: (610) 688-0556

See Connecticut - **Cannon Associates**, Woodbury, CT (OEM only)
PHONE: (203) 266-4355 FAX: (203) 266-4356
E-MAIL: cannonjmd@aol.com

Pronto Gas & Heating, 181 Chrystie Street, New York, NY 10002 PHONE: (212) 777-3366 FAX: (212) 777-8855
E-MAIL: tito@prontosupplies.com

NORTH CAROLINA

Weeks-Williams-Devore, 1014 Industrial Dr., Matthews, NC 28105 PHONE: (704) 847-9838
FAX: (704) 847-1500 E-MAIL: wwd@cetlink.net

Western section - See Tennessee - **Capitol Sales**, Cleveland, TN (OEM only) PHONE: (423) 472-6638
FAX: (423) 886-7889 E-MAIL: Bdodom@bellsouth.net

NORTH DAKOTA

See Minnesota - **Marshall W. Nelson & Associates, Inc.**, Eagan, MN PHONE: (651) 890-0720
FAX: (651) 890-7009
E-MAIL: mwnelson@mwnelson.com

Refrigeration Heating Inc., 345 19th St. North, Fargo, ND
58107 PHONE: (701) 232-7070
FAX: (701) 293-9043 E-MAIL: don@rhissupply.com

OHIO

McNay Equipment, 11237 Cornell Park Dr., Cincinnati, OH
45242
PHONE: (513) 489-4770 FAX: (513) 489-1470
E-MAIL: Sbagent@mcnay-equipment.com

Southwest section - **Superior Thermal**, 201 Sales Ave.,
Harrison, OH 45030
PHONE: (513) 367-6660 FAX: (513) 367-1524
E-MAIL: jcole@superiorthermal.com

Northwest section - See Michigan - **Industrial Burner Systems
Co.**, Walled Lake, MI
PHONE: (248) 363-1577 FAX: (248) 363-3725
E-MAIL: mhutchins@industrialburner.com

Northeast section - **C.A. Litzler**,
4800 W. 160th Street, Cleveland, OH 44135
PHONE: (216) 267-8020 FAX: (216) 267-9856
E-MAIL: njaracz@calitzler.com

Central section - **Columbus Temp. Control**, 1053 E. Fifth Ave.,
Columbus, OH 43201 PHONE: (614) 294-6216
FAX: (614) 294-2940 E-MAIL: sales@columbustemp.com

OKLAHOMA

Federal Corporation, 120 W. Main, Oklahoma City, OK 73104
PHONE: (405) 239-7320 FAX: (405) 232-5438
E-MAIL: aloeffler@federalcorp.com

See Kansas - **Heat Process & Control Inc.**, Prairie Village, KS
PHONE: (913) 341-1800 FAX: (913) 341-1802

OREGON

Kleenair Products Co., Inc., 14230 S. E. 98th Ct.,
Clackamas, OR 97015 PHONE: (503) 653-6925
FAX: (503) 659-0941 E-MAIL: kleenair@kleenairusa.com

PENNSYLVANIA

Eastern section - **Stock Controls, Inc.**, 11 West Ave., Wayne, PA
19087 PHONE: (800) 786-2547 FAX: (724) 733-7966

APR Supply, 1070 S. Cameron St., Harrisburg, PA 17104
PHONE: (717) 236-7941 FAX: (717) 236-4401
E-MAIL: ehowell@aprsupply.com

See Rhode Island - **Cannon Associates**, Warren, RI (OEM only)
PHONE: (401) 245-0850 FAX: (401) 0910
E-MAIL: mbattist@cannonassociates.com

Western section - **Edward C. Smyers Company**,
223 Fort Pitt Blvd, Pittsburgh, PA 15222
PHONE: (800) 245-6335 FAX: (412) 471-0256
E-MAIL: tomjr@smyers.com

Quality Combustion Inc., Glassport Ind. Center, #42
Allegheny Ct., Glassport, PA 15045
PHONE: (412) 673-8330 FAX: (412) 673-8360
E-MAIL: spangqci@sgi.net

RHODE ISLAND

See Connecticut - **Etter Engineering Co., Inc.**,
Cheshire, CT PHONE: (800) 444-1962 FAX: (203)
272-9860
E-MAIL: tetter@etterengineering.com

Cannon Associates, 329 Market St., Warren, RI 02885
(OEM only) PHONE: (401) 245-0850
FAX: (401) 245-0910
E-MAIL: mbattist@cannonassociates.com

SOUTH CAROLINA

See North Carolina - **Weeks-Williams-Devore**,
Matthews, NC PHONE: (704) 847-9838 FAX: (704)
847-1500 E-MAIL: wwd@cetlink.net

Western section - See Tennessee - **Capitol Sales**,
Cleveland, TN (OEM only)
PHONE: (423) 472-6638 FAX: (423) 886-7889
E-MAIL: Bdodom@bellsouth.net

SOUTH DAKOTA

See Minnesota - **Marshall W. Nelson & Associates,
Inc.**, Eagan, MN PHONE: (651) 890-0720
FAX: (651) 890-7009 E-MAIL:
mwnelson@mwnelson.com

TENNESSEE

Eastern 3/4ths - **Eclipse-Combustion**, 401 N. Market
St., Chattanooga, TN 37405
PHONE: (423) 266-4831 FAX: (423) 265-6327
E-MAIL: cvaughn@eclipsenet.com

Capitol Sales, 2475 Villa Dr., Cleveland, TN 37321
(OEM only) PHONE: (423) 472-6638
FAX: (423) 886-7889 E-MAIL: Bdodom@bellsouth.net

Western 1/4th - **Combustion & Controls Co., Inc.**,
3321 Winbrook Ave., Memphis, TN 38116
PHONE: (901) 332-6077 FAX: (901) 332-6274
E-MAIL: combustioncontrols@attglobal.net

TEXAS

Askco Instrument Corp., 7598 Morley, Houston, TX
77061 PHONE: (713) 645-9898 FAX: (713) 645-9769
E-MAIL: sales@askco.com

IEC Controls, 6520 Midway Road, Fort Worth, TX
76117 PHONE: (800) 329-0707 FAX: (817) 831-7868

Temperature Controls Systems, 10315 Brockwood,
Dallas, TX 75238 PHONE: (214) 343-1444
FAX: (214) 343-2106 E-MAIL: tcscross@aol.com

UTAH

Control Equipment Co., 353 W. 2880 S. Salt Lake City,
UT 84115 PHONE: (800) 452-1457 (801) 487-7741 FAX:
(801) 487-4517
E-MAIL: control2@usawest.net

Servco Heating & Air Conditioning, 2970 S. West
Temple, Suite B, Salt Lake City, UT 84115
PHONE: (801) 486-4300 FAX: (801) 486-4399
E-MAIL: tjfarley@xmission.com

VERMONT

See Connecticut - **Etter Engineering Co., Inc.**, Cheshire,
CT PHONE: (800) 444-1962 FAX: (203) 272-9860 E-
MAIL: tetter@etterengineering.com

See Rhode Island - **Cannon Associates**, Warren, RI (OEM
only) PHONE: (401) 245-0850 FAX: (401) 245-0910 E-
MAIL: mbattist@cannonassociates.com

VIRGINIA

L.A. Prillaman Co., Inc.,
10025 Lichinghole Rd., Ashland, VA 23005
PHONE: (804) 798-1455 FAX: (804) 798-2861
E-MAIL: jimp@laprillaman.com

WASHINGTON

Mortemp, Inc., 6516 5th Place South, Seattle, WA 98124
PHONE: (206) 767-0140 FAX: (206) 763-7234
E-MAIL: mortemp@micontrols.com

WEST VIRGINIA

Northern section - See Pennsylvania - **Edward Smyers
Co.**, Pittsburg, PA PHONE: (800) 245-6335 or
(412) 471-3222 FAX: (412) 471-0256
E-MAIL: smyers@smyers.com

Southern section - See Virginia - **L.A. Prillaman Co., Inc.**,
Ashland, VA PHONE: (804) 798-1455
FAX: (804) 798-2861 E-MAIL: jimp@laprillaman.com

WISCONSIN

Eastern 3/4ths - **Marshall W. Nelson & Associates, Inc.**,
4300 N. Port Washington Rd., Milwaukee, WI 53212
PHONE: (414) 332-6000 FAX: (414) 332-2400
E-MAIL: info@mwnelson.com

Western 1/4th - See Minnesota - **Marshall W. Nelson &
Associates, Inc.**, Eagan, MN PHONE: (651) 890-0720
FAX: (651) 890-7009 E-MAIL:
mwnelson@mwnelson.com

Climatic Control, 5061 W. State St., Milwaukee, WI
53208 PHONE: (414) 259-9070
FAX: (414) 259-0613 E-MAIL: info@climaticcontrol.com

WYOMING

See Colorado - **Slaybaugh-Thompson Co.**, Lakewood,
CO PHONE: (303) 238-4379 FAX: (303) 238-4370
E-MAIL: slaythom@aol.co

INTERNATIONAL

AUSTRALIA

Pryde Measurement Pty. Ltd., 615 Warrigal Rd.,
Ashburton Victoria, Australia 3147
PHONE: (03) 9-568-6188 FAX: (03) 9-569-9742
E-MAIL: pryde@pryde.com.au

BELGIUM

Maxon, N.V. International S.A., Luchthavenlaan 16-18,
B-1800 Vilvoorde, Belgium
PHONE: 02-255-09-09 FAX: 02-251-82-41

BRAZIL

Brazil Office **MML Componentes Ltda.**, Rua Itapura No.
333, 03310-000 Sao Paulo-SP Brazil
PHONE: 55-11-293-2266 FAX: 55-11-6191-2049
E-MAIL: adm@mmlsistemas.com.br

CANADA

Carremm Controls Ltd., 1578 Finfar Ct., Unit 3,
Mississauga, Ontario L5J4K1
PHONE: (905) 823-7333 FAX: (905) 823-0003
E-MAIL: carremm@carremmcontrols.com

CHINA

Antunes Equipment Manufacturing (Suzhou) Co. Ltd.
John Han, General Manager
24th. Buildig Huo Jo Road, Science and Technology Park
New District Suzhou
PHONE: 0512-6841-3907
E-MAIL: john.han@ajantunes.com

ENGLAND

Caledonian Control Tech., 2 Kelsey Close, Nuneaton,
Warwickshire CV116RS
PHONE: 44-24 7634 4377 FAX: 44 24 7635 1443
E-MAIL: info@caledonian-control.co.uk

HONG KONG/CHINA

Main Office: (USA) United Syntek Corp., Two Denver
Plaza, Route 16N, Denver, NC 28037
PHONE: (704) 483-4455 FAX: (704) 483-9588
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HONG KONG OFFICE

United Syntek Hong Kong Ltd., Unit 1026 Block B,
Focal Industrial Centre, 21 Man Lok St., Hunghom,
Kowlon Hing Hong, Hong Kong
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ITALY

Imeco, SRL, via Bruncio 9, 20126 Milano, Italy
PHONE: 39-2-270 7181 FAX: 39-2-270 71838
E-MAIL: imeco@imecosrl.com

INDONESIA

PT. Pico Reksa Pratama
Kompleks Pertokoan New Asia No. 120-126
JI. Taman Permata Lippo Karawaci
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Jakarta - Indonesia

PHONE: +62-21-591-0810 FAX: +62-21-591-1290
E-MAIL: pico@infoasia.net

JAPAN

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PHONE: 3-3254-2611 FAX: 3-3256-7668
E-MAIL: tme00001@nifty.ne.jp

Main Office: (USA) United Syntek Corp., Two Denver
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United Syntek-Korea, NA-4519, JoongAng Circulation
Complex 1258, Kurobon-Dong, Kuro-Gu, Seoul, Korea
152-721 PHONE 82 2616 0056 FAX: 82 2616 0098
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MALAYSIA/SINGAPORE

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Malaysia/Singapore Office

United Syntek Malaysia Sdn. Bhd., 18, Jalan SS 25/35,
Taman Mayang 47301 Petaling Jaya, Selangor Malaysia
PHONE: 3-703-5021 FAX: 3-703-8945

MEXICO

Combustion Industrial Y Control,
PHONE: 5-566-3365 FAX: 5-535-2273

Combustion Industrial Y Control SA, Av. California No.
107, Col. Unsurgentes San Borja Delegacion Benito Juarez,
Mexico D.F. 03100
PHONE: 5-559-54-64 FAX: 5-575-64-47

SOUTH AFRICA

The Combustion Group Ltd., PO Box 459-Sabenza,
4 Mopedi Road, Edenvale 1610, Transvaal, S. Africa
PHONE: 11-452-5060 FAX: 11-609-2405
E-MAIL: tcg@iafrica.com

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Taiwan Office

United Systek - Taiwan Ltd.,
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Ruey Guang Rd, Ney-Hwu, Taipei 114, Taiwan R.O.C.
PHONE: 886-2-879-12526 FAX: 886-2-879-12537

TERMS OF SALE

- All orders are subject to acceptance by Antunes Controls. To insure prompt shipment, always order by catalog model number.
- Upon credit approval, terms shall be net thirty (30) days. Accounts exceeding thirty (30) days are subject to a service charge of 1¹/₂% per month on the unpaid balance of the invoice.
- Shipping weights indicated in this price schedule are approximate and may vary depending upon accessories delivered with the order.
- All shipments are f.o.b. our factory, Carol Stream, IL, USA.
- Enclosed electrical specifications are standard. If electrical requirements are different from standard, contact Antunes Controls.
- All foreign orders are subject to a \$35.00 processing fee.
- All costs quoted in this price list are in U.S. dollars. Payment in any other currency will not be accepted.
- If a shipment is lost or damaged in transit the purchaser should make his claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carriers receipt. All merchandise must be unpacked and inspected within ten (10) days after receipt. Damage should be reported to the carrier within that period. All boxes and packing will be required for inspection on damaged goods claims.
- No equipment may be returned without an authorized return number. Returned merchandise is subject to a restocking charge plus charges for any necessary repairs to place equipment in resaleable condition.
- Returned goods must be shipped prepaid.
- \$25.00 surcharge for orders that are less than \$100.00
- 15% restocking charge on returned merchandise
- Prices quoted do not include federal, foreign, excise, municipal or other sales or use taxes. All such taxes are the responsibility of the purchaser.

WARRANTY

1. Antunes Controls' products are guaranteed to be free from mechanical and electrical defects for a period of one year from date of shipment under normal use and service provided installation is made in accordance with manufacturer's recommendations.
2. Parts deemed defective shall be repaired or replaced at manufacturer's option and at manufacturer's expense but shall not include foreign or federal excise taxes, state or municipal sale or use taxes, all such taxes not limited to the foregoing being responsibility of the purchaser.
3. No charge for travel and/or mileage will be allowed to purchaser.
4. Antunes Controls reserves the right to make changes in design or make any improvements on any products. The right is always reserved to modify our equipment because of new technology, underwriter's requirements and/or government regulations.
5. The following are not covered under warranty:
 - a. Failure from neglect, abuse, careless handling and mis-application of unit.
 - b. Failure to observe guidelines for installation or improper voltage hook-up.
 - c. Failure caused by improper maintenance. (See maintenance guidelines found in operation instructions)
 - d. Unless specifically allowed by Antunes Controls, no other charges may be included under warranty.

Antunes Controls

DIVISION OF A.J.ANTUNES & CO. • ISO 9001:2000 CERTIFIED

TEMPERATURE CONTROLLERS • TEMPERATURE DISPLAYS • AIR PRESSURE SWITCHES • GAS SWITCHES •
CUSTOM ELECTRONIC CONTROLS • SUBSYSTEMS ENGINEERING AND MANUFACTURING • TIMERS



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