

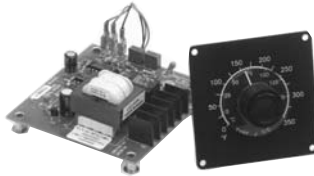
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# **AA** ANTUNES *CONTROLS*

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A DIVISION OF A.J. ANTUNES & CO.

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*Enclosed is our complete line of products.  
All of our products are manufactured in our Carol Stream, Illinois Plant.*

*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.*

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**SUGGESTED LIST PRICE**

**EFFECTIVE FEBRUARY 1, 2002**

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# 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

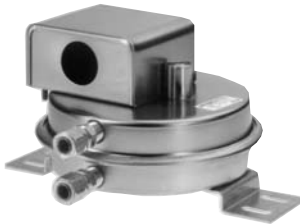


SPECIFICATIONS	CONNECTION	RANGES		PART NO.	LIST PRICE
		w.c.	mm/w.c.		
Automatic Reset					
Differential • Vacuum	Comp. Fittings	.17"-6"	4.25-100	8021204002	\$60.20
Pressure	1/8" NPT	.17"-6"	4.25-100	8021204007	\$56.10
Maximum Pressure	1/4" Hose Barb	.17"-6"	4.25-100	8021204014	\$59.20
Surge: 20" W.C.					
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	APPROVALS: U.L FILE No. MH8009 C.S.A. FILE No. LR25144
	1/8 HP at 125 Vac	
	1/4 HP at 250 Vac	
	Pilot Duty 125 VA at 125/250 Vac	

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

# SINGLE GAS SWITCHES (MODELS A & H)

## MODEL HGP-A or LGP-A

### SPECIFICATIONS

### HIGH RANGES

### PART NO.

### LIST PRICE

**\$110.40**

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

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

### LOW RANGES

### PART NO.

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

### DIMENSIONS:

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



## MODEL RHGP-A or RLGP-A

### SPECIFICATIONS

### HIGH RANGES

### PART NO.

### LIST PRICE

**\$104.00**

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

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

### LOW RANGES

### PART NO.

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

### DIMENSIONS:

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



## MODEL HGP-H or LGP-H

### SPECIFICATIONS

### HIGH RANGES

### PART NO.

### LIST PRICE

**\$128.55**

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

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

### LOW RANGES

### PART NO.

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

### DIMENSIONS:

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



## MODEL RHGP-H or RLGP-H

### SPECIFICATIONS

### HIGH RANGES

### PART NO.

### LIST PRICE

**\$124.40**

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

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

### LOW RANGES

### PART NO.

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

### 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) PART NO.
2"-20"	5-50	8101111202
8"-35"	18-87	8101111303
10"-60"	25-150	8101111407

### LIST PRICE

**\$73.45**

### LOW RANGES

w.c.	mbar/w.c.	(LGP-G) PART NO.
.5"-4"	1-10	8103116101
1"-20"	3-50	8103116202
5"-30"	13-75	8103116303
7"-55"	17-136	8103116407

### 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) PART NO.
.8"-4"	3-10	8102111102
2"-20"	5-50	8102111203
5"-35"	13-87	8102111304
<b>PSI</b>	<b>BAR</b>	
1-4	.07-.28	8102113005

### LIST PRICE

**\$66.30**

### LOW RANGES

w.c.	mbar/w.c.	(RLGP-G) PART NO.
.5"-4"	1-10	8104116102
1"-20"	3-50	8104116203
5"-30"	13-75	8104116304
<b>PSI</b>	<b>BAR</b>	
1-4	.07-.28	8104118005

### 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  
 Hermetically 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.	(HGP-D)
5"-28"	125-700	803113801
10"-50"	250-1250	803113802

### LOW RANGES

w.c.	mm/w.c.	(LGP-D)
2"-14"	50-350	803113901
10"-50"	250-1250	803113902

### PART NO.

(HGP-D)  
 803113801  
 803113802

### PART NO.

(LGP-D)  
 803113901  
 803113902

### LIST PRICE

\$199.95

### 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.	(RHGP-D)
5"-28"	125-700	803114001
10"-50"	250-1250	803114002

### LOW RANGES

w.c.	mm/w.c.	(RLGP-D)
2"-14"	50-350	803114101
10"-50"	250-1250	803114102

### PART NO.

(RHGP-D)  
 803114001  
 803114002

### PART NO.

(RLGP-D)  
 803114101  
 803114102

### LIST PRICE

\$188.40

### 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.

### RANGE

.5"-6.0" W.C.

### PART NO.

8521101001

### LIST PRICE

\$67.70

### 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



### 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.
2"-16"	50-400
5"-28"	125-700
10"-50"	250-1250
2"-16"	50-400
5"-28"	125-700
10"-50"	250-1250
5"-28"	125-700
10"-50"	250-1250

### LOW RANGES

w.c.	mm/w.c.
1"-6"	25-150
1"-6"	25-150
1"-6"	25-150
2"-14"	50-350
2"-14"	50-350
2"-14"	50-350
6"-24"	150-600
6"-24"	150-600
10"-50"	250-1250

### PART NO.

(HLGP-A)
804111701
804111702
804111703
804111704
804111705
804111706
804111707
804111708
804111709

### 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

**\$219.30**

## MODEL RHLGP-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.
2"-16"	50-400
5"-28"	125-700
10"-50"	250-1250
2"-16"	50-400
5"-28"	125-700
10"-50"	250-1250
5"-28"	125-700
10"-50"	250-1250

### LOW RANGES

w.c.	mm/w.c.
1"-6"	25-150
1"-6"	25-150
1"-6"	25-150
2"-14"	50-350
2"-14"	50-350
2"-14"	50-350
6"-24"	150-600
6"-24"	150-600
10"-50"	250-1250

### PART NO.

(RHLGP-A)
804112101
804112102
804112103
804112104
804112105
804112106
804112107
804112108
804112109

### 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

**\$208.00**

## MODEL HLGP-D



### SPECIFICATIONS

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

### LOW RANGES

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

### PART NO.

(HLGP-D)
804114201
804114202
804114203

### 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

**\$347.45**

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

### LOW RANGES

w.c.	mm/w.c.
2"-14"	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

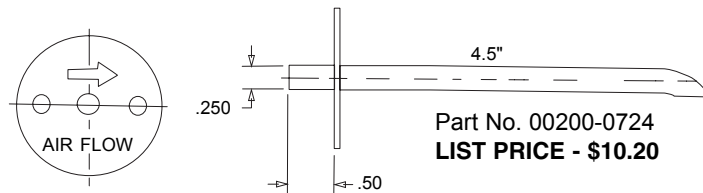
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ELECTRICAL RATING  
 (All Model-D Gas Switches)  
 D.P.D.T. Electrical Switch  
 10 Amps @ 125, 250, 1/8 HP 125 Vac  
 1/4 HP 250 Vac, 125 VA  
 Pilot Duty 125 or 250 Vac

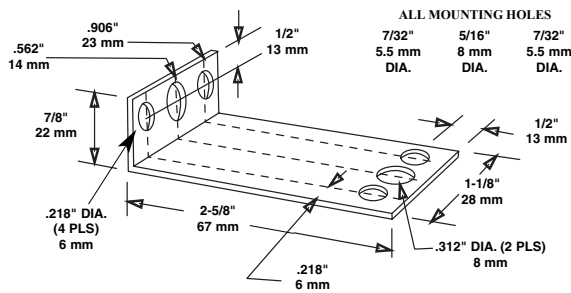
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 U.L. FILE No. MH8009  
 C.S.A FILE No. LR25144  
 F.M. SERIAL No. 19797

## ACCESSORIES

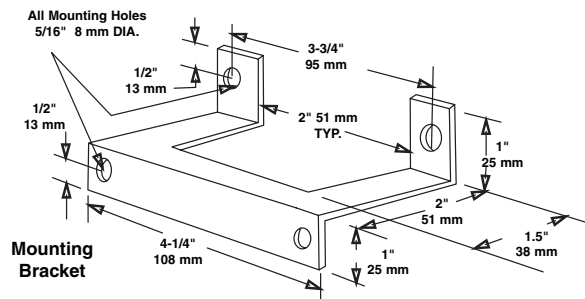
### AIR SENSOR TUBE



### ACCESSORIES MOUNTING BRACKETS FOR PRESSURE SWITCHES



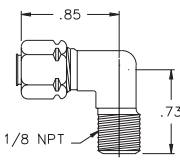
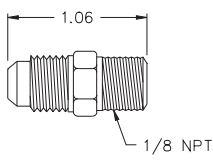
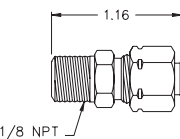
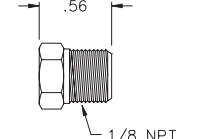
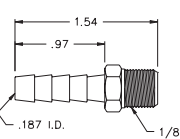
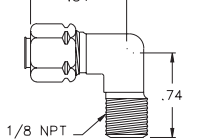
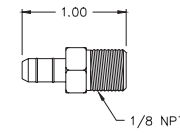
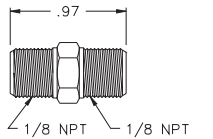
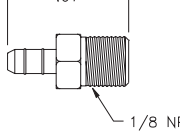
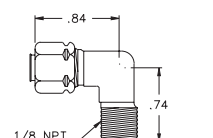
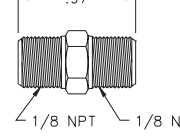
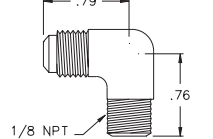
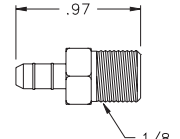
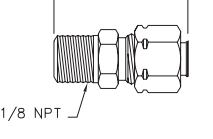
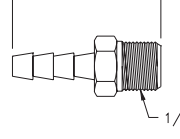
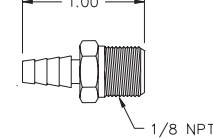
Part No. 808000303 LIST PRICE \$3.60  
 Used On: All Single Gas Pressure Switches and Model JD-2



Part No. 808000302 LIST PRICE \$4.85  
 Used On: All Double Gas Pressure Switches

# FITTINGS

## FITTINGS AND ORIFICES

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

# TEMPERATURE CUSTOM CONTROLLERS • TCC SERIES 700

## SPECIFICATIONS

### Adjustable Type

- Potentiometer adjustment
- Factory Preset
- Screw driver adjustment

### Output

- 8 amp relay SPDT (resistive)
- 15 amp relay SPST (resistive)

### Accuracy

- $\pm 3^\circ$  of Set Point

### Enclosure/Mounting

- Box enclosure
- Open board
- "C" bracket
- Diamond bracket

### Power Supply

- 24 Volts
- 120 Volts
- 208-240 Volts

### Sensor Input

- Thermistor

### Other Features

- Units can act as a High Limit Control with Manual Reset
- Adjustable Hysteresis
- Jumper for High/Low (Hot/Cold) Control

## BOX ENCLOSURE



711111202  
**LIST PRICE**  
**\$72.45**

Potentiometer adjustment  
24V power supply  
15 amp relay output  
-20°-150°F adjustable range  
Screw terminal connections  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control

7413211205  
**LIST PRICE**  
**\$83.65**

Screw driver adjustment  
120V power supply  
15 amp relay output  
100°-350° adjustable range  
Screw terminal connections  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control (shown)

## "C" BRACKET



723111208  
**LIST PRICE**  
**\$63.25**

Finger adjustment  
24V power supply  
15 amp relay output  
-20°-150°F adjustable range  
Screw terminal connection  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control (shown)

7437211109  
**LIST PRICE**  
**\$72.45**

Screw driver adjustment  
120V power supply  
8 amp relay output  
100°-350°F adjustable range  
1/4" quick connects  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control

## OPEN BOARD



712111106  
**LIST PRICE**  
**\$55.10**

Potentiometer adjustment  
24V power supply  
15 amp relay output  
-20°-150°F adjustable range  
1/4" quick connects  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control (shown)

7423211607  
**LIST PRICE**  
**\$63.25**

Screw driver adjustment  
120V power supply  
15 amp relay output  
100°-350°F adjustable range  
6" wire leads  
No on/off led  
Adjustable hysteresis  
Jumper for high/low control

## DIAMOND BRACKET



714121104  
**LIST PRICE**  
**\$59.20**

Potentiometer adjustment  
24V power supply  
15 amp relay output  
100°-350°F adjustable range  
1/4" quick connects  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control (shown)

7447111210  
**LIST PRICE**  
**\$68.35**

Screw driver adjustment  
120V power supply  
8 amp relay output  
-20°-150°F adjustable range  
Screw terminal connections  
On/Off led  
Adjustable hysteresis  
Jumper for high/low control

# 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	<b>\$20.40</b>
808000003	220 to 12 Vac	<b>\$20.40</b>

### 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

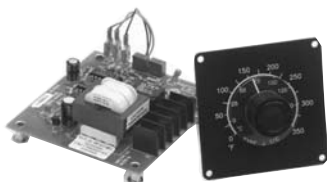
### DIMENSIONS:

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)

### ON/OFF CONTROL

<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**

Contact Antunes Controls for  
Additional ranges and outputs.

Agency Approval: UR/CUR

# TEMPERATURE CONTROLLERS

## MODEL TTO



### SPECIFICATIONS

SENSOR  
 Thermocouple  
 (Type "J" or "K")  
 ACCURACY:  
 1% Full Scale  
 PACKAGE:  
 Lexan Case w/ 8 Pin  
 Circular Connector  
 U.L. 94V-2.200+  
 Flame Class  
 POWER:  
 115 Vac  
 OUTPUT:  
 10 Amp Relay  
 (Resistive Load)

### TEMP. RANGE

50°-990°F

### THERMOCOUPLE

"J" Type

### PART No.

8653310120

### DIMENSIONS:

Width 2.4" (61.5 mm)  
 Depth 3.7" (95 mm)  
 Height 1.8" (45 mm)

### LIST PRICE

**\$142.80**  
**Adjustable Type**

# 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

### TEMP. RANGE

200°-1000°F  
 200°-1000°F  
 1000°-2000°F  
 100°-1100°C

### THERMOCOUPLE

"J" Type  
 "K" Type  
 "K" Type  
 "K" Type

### PART No.

8453110270  
 8453120240  
 8453220250  
 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

**\$197.90**

## MODEL HLC HIGH LIMIT CONTROL



### SPECIFICATIONS

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

### MODELS

HLC 24 Vac with 15 foot sensor 220° **\$165.00**  
 HLC 120 Vac with 15 foot sensor 220° **\$190.00**  
 HLC 24 Vac with 15 foot sensor 300° **\$185.00**  
 HLC 120 Vac with 15 foot sensor 300° **\$210.00**  
 808000145 Sensor w/15 foot leads 105°C **\$15.50**  
 808000147 Sensor w/15 foot leads 150°C **\$22.85**

### LIST PRICE

### DIMENSIONS:

Width  
 Depth  
 Height

**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)

### TEMP. RANGE

50°-940°F  
50°-940°F  
10°-530°C  
10°-530°C

### THERMOCOUPLE

“J” Type  
“K” Type  
“J” Type  
“K” Type

### PART NO.

8151310010  
8151320020  
8151410030  
8151420040

### OPTIONAL STEP DOWN TRANSFORMERS

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

### 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

**\$127.50**

## 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)

### TEMP. RANGE

50°-940°F  
50°-940°F  
10°-530°C  
10°-530°C

### THERMOCOUPLE

“J” Type  
“K” Type  
“J” Type  
“K” Type

### PART NO.

8353310010  
8353320030  
8353410020  
8353420040

### 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

**\$160.15**

## MODEL LDD



### SPECIFICATIONS

POWER:  
120 Vac or 240 Vac  
50 Hz @ 0.1 Amp  
AMBIENT  
TEMPERATURE:  
0° to 60°C  
INPUT: 4-20 mA  
DISPLAY:  
1.0" high red LEDs  
CONNECTIONS: Screw  
terminal

### VOLTAGE

120 V

### PART NO.

8900000010

### LIST PRICE

**\$317.25**

### DIMENSIONS:

Width 5.9" (150 mm)  
Depth 2.3" (59 mm)  
Height 3.6" (92 mm)  
Panel Cut Out: 5.6"W x 2.7"H  
(142 mm x 69 mm)

OPTIONS: Voltage  
Signal Input 0-2.000  
VDC 240 Vac 50/60  
Hz Line Operation

## MODEL EDD



### SPECIFICATIONS

POWER:  
24 Vac  
AMBIENT  
TEMPERATURE:  
30°-140°F (0°C-60°C)  
INPUT: 4-20 mA  
SCALE: 0-1.999  
DISPLAY: 3½ digit LED  
0.56" high LEDs  
CONNECTIONS: Screw  
terminal

### VOLTAGE

24 Vac

### PART NO.

8910000010

### LIST PRICE

**\$234.60**

### DIMENSIONS:

Width 4.27" (108 mm)  
Depth 4.12" (104 mm)  
Height 1.72" (44 mm)  
Panel Cut Out: 3.62"W x 1.77"H  
(92 mm x 45 mm)

OPTIONS: Voltage  
Signal Input 0-2.000  
VDC 240 Vac 50/60  
Hz Line Operation

# FREEZESTAT/LIMIT CONTROL

## MODEL TCT



### SPECIFICATIONS

TEMP. RANGE: 30°F to 58°F  
 TIMING RANGE: 1 to 5 minutes  
 CONTROL METHOD: On/Off  
 OUTPUT: 10A Resistive Load SPDT Relay  
 PACKAGE: Open Board  
 POWER SUPPLY: 24 Vac

### SENSOR

10 Ft.  
 20 Ft.

### PART NO.

8542130010  
 8542130020

### LIST PRICE

**\$86.20**  
**\$91.30**

### DIMENSIONS:

Width 3.0" (77 mm)  
 Depth 1.25" (32 mm)  
 Height 2.8" (71 mm)

## MODEL TCF



### SPECIFICATIONS

TEMP. RANGE: 30°F to 58°F (-1°C-140°C)  
 TIMING RANGE: 1 to 5 minutes  
 CONTROL METHOD: On/Off  
 OUTPUT: 10A Resistive Load SPDT Relay  
 PACKAGE: Epoxy Encapsulated  
 POWER SUPPLY: 115 Vac

### SENSOR

10 Ft.  
 20 Ft.

### PART NO.

8553130010  
 8553130050

### LIST PRICE

**\$140.25**  
**\$145.35**

### DIMENSIONS:

Width 2.6" (66 mm)  
 Depth 1.31" (34 mm)  
 Height 5.5" (140 mm)

## 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

10 Ft.  
 10 Ft.

### Voltage

115  
 24

### PART NO.

8533130023  
 8533130023

### LIST PRICE

**\$235.00**  
**\$210.00**

TEMPERATURE RANGE:  
 LOW LIMIT: 30° TO 58°F  
 HIGH LIMIT: 100° TO 220°F  
 TIME DELAY RANGE:  
 1 to 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.

8742130013

### LIST PRICE

**\$168.30**

### DIMENSIONS:

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

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

**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

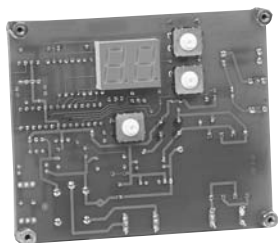
**DIMENSIONS:**

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

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

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

**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:**

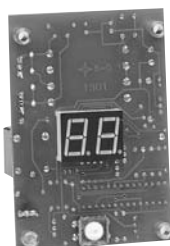
Width 4.25" (108 mm)  
 Length 3.5" (89 mm)  
 Height 1.62" (41 mm)

**MODELS**

**PART NO. LIST PRICE**

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

**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

**MODELS**

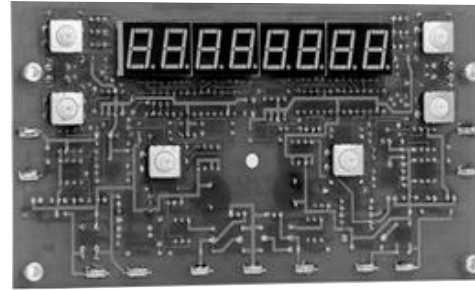
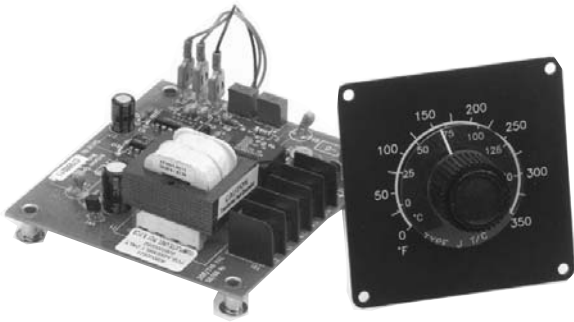
**LIST PRICE**

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 25 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: Bddom@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

Northeast section - **Control Technology Specialist**,  
5851 Alder Ave., Sacramento, CA 95828  
PHONE: (916) 288-2700 FAX: (916) 288-2710  
E-MAIL: ctscontrol@aol.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  
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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  
E-MAIL:

**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@controlsspecialists.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 E-MAIL:

## KENTUCKY

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

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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

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Northern section - See Tennessee - **Capitol Sales**, Cleveland, TN (OEM only) PHONE: (423) 472-6638 FAX: (423) 886-7889 E-MAIL: Bdodom@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 WEB: www.gobdc.com E-MAIL: sales@gobdc.com

**Control Consultants & Supply**, 2330 Hampton, St. Louis, MO 63139 PHONE: (314) 647-6680 FAX: (314) 647-6995 E-MAIL: dennisdalsing@controlconsultants.com

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

**Burner Design and Control**, 1353 Baur Blvd., St. Louis, MO 63132-1987 PHONE: (314) 993-5810 FAX: (314) 993-4107 E-MAIL:

#### **MONTANA**

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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

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

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

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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**

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PHONE: (303) 238-4379 FAX: (303) 238-4370  
E-MAIL: slaythom@aol.co

#### **NEW YORK**

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  
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E-MAIL:

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

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#### **NORTH DAKOTA**

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

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

#### **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  
E-MAIL:

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

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E-MAIL: mbattist@cannonassociates.com

Western section - **Continental Sales & Engr. Co.**, 211 Nelbon Ave., Pittsburgh, PA 15235 (OEM only)  
PHONE: (412) 241-5660 FAX: (412) 243-1329  
E-MAIL: contsales@aol.com

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

#### **SOUTH CAROLINA**

See North Carolina - **Weeks-Williams-Devore**, Matthews, NC PHONE: (704) 847-9838 FAX: (704) 847-1500  
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#### **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

**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**

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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.**,  
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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  
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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  
E-MAIL:

### 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

### 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  
E-MAIL: syntek@bellsouth.net

### HONG KONG OFFICE

**United Syntek Hong Kong Ltd.**, Unit 1026 Block B,  
Focal Industrial Centre, 21 Man Lok St., Hunghom,  
Kowloon Hing Hong, Hong Kong  
PHONE: 2-764-2293 FAX: 2-764-6011  
E-MAIL:

### ITALY

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## 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 1½% 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.

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# **AJ** ANTUNES CONTROLS

DIVISION OF A.J. ANTUNES & CO.

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