

SIGN TECHNOLOGY

PRICE LIST

EFFECTIVE FROM

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NZ Agents for E.G.L., F.A.R.T., AND HANSEN

NEW ZEALAND AGENTS FOR E.G.L.
NEON EQUIPMENT
FART TRANSFORMERS
HANSEN CONVERTERS

E.G.L. CLEAR AND COATED GLASS TUBING

Please note 18mm glass is 2.4m long

LEAD GLASS

Colour	Description	Per Stick						
		6mm	8mm	10mm	12mm	15mm	18mm	20mm
CLEAR GLASS								
3000	Warm white, good for skin tones							
CL Designer 2800								
CL Designer 4500	Triphosphor Tubing							
4500	Cool white							
V4500	Matches Voltarc 4500							
6500	Brilliant White							
AZURE	Vibrant greenish blue (this glass is being discontinued by EGL)							
CORAL PINK (ARGON)	Very deep Argon pink							
E.10 GREEN	Standard green (Neon 1)							
E.12 TURQUOISE	Pastel, more green than E20 or E21 (Neon 2)							
E.20 TURQUOISE	Pastel, more blue than E21 (Neon 2)							
E.21 AQUA	Pastel turquoise (Neon 2) (this glass is being discontinued by EGL)							
SEACREST	Vibrant Aquamarine							
E.40 BLUE	Light blue (Neon 3)							
CLEAR GOLD	Gold yellow (double coated) (Neon 4)							
FLAMINGO	Brilliant magenta							
HORIZON BLUE	Brilliant blue (Neon 5)							
E.90 PURPLE	Reddish purple							
V.P. GREEN	Brilliant green (double coated) (Neon 6)							
E.80 ORCHID	Very soft pastel orchid							
CLEAR BRIGHT YELLOW	Bright Yellow (double coated)							
NEO BLUE	(double coated)							

SODA GLASS (ACCUWALL) 1.5m long

APPLE GREEN	Yellow glass coated green
COATED AQUA	Aquamarine coloured glass
COATED BROMO	Blue glass coated
COATED EMERALD	Brilliant green glass coated
COATED ORANGE	Brilliant orange glass coated
COATED RUBY RED	(Argon Red)
CLEAR RUBY RED	
S.81 NOVIOL GOLD	Medium yellow
P.73 NOVIOL GOLD	True gold
E.50 NOVIOL GOLD	Bright yellow
BROMO PURPLE	Blue glass lights purple
CLEAR BROMO BLUE	Clear blue glass uncoated

Note: *Above descriptions apply to argon fill*

Neon pumped:	(1) Amber
	(2) Peach Shades
	(3) Brilliant Pink
	(4) Tangerine
	(5) Pink
	(6) Amber Orange

E.G.L. ELECTRODES

ELECTRODES

Product	Rated	Size	Description
12C - P	20-30ma	10mm diam	Plain
2C - T	20-30ma	10mm diam	Tubulated
9CMC Premium	30ma	12mm diam	Plain
9CMCT Premium	30ma	12mm diam	Tubulated
9CC Premium - P	30-45ma	13mm diam	Plain
9CC Premium - T	30-45ma	13mm diam	Tubulated
8CMC-P (short shell)	30-45ma	15mm diam	Plain
8CMC-T (electrodes)	30-45ma	15mm diam	Tubulated
8CC Premium - P	30-60ma	15mm diam	Plain
8CC Premium - T	30-60ma	15mm diam	Tubulated
E19CM	120-180ma	19mm diam	Plain
E19CMT	120-180ma	19mm diam	Tubulated

GASES

K.4	1.0 L Pyrex
Neon	1.0 L Pyrex
Blue	1.0 L Pyrex
Helium	1.0 L Pyrex
Helium	1.0 L Soda
Blue	1.0 L Soda
Neon	1.0 L Soda
Neon	2.65L Soda
Argon	2.65L Soda
Blue	2.65L Soda
K.4	2.65L Soda
Helium	2.65L Soda

K.4 is a cold weather gas with a high percentage of neon and a trace of helium for use on mercury vapour tubing in adverse weather conditions.

Tank systems also available - price on application.

Please contact regarding hand torches, crossfires, and ribbon burners.

Cork Stoppers

10, 12, 15mm diam

Brass Caps

12mm & 15mm for electrodes

Electrode Savers

For repair of electrodes with broken "tig" wires

TRANSFORMERS

F.A.R.T.

Product	Dimensions (mm)			Wgt kg
	(H)	(W)	(L)	
Resinblock 30ma, IP44 enclosed P.E Type				
3.0kv/30ma	071	076	247	2.90
4.0kv/30ma	073	076	247	3.0
5.0kv/30ma	082	076	247	3.70
6.0kv/30ma	084	076	247	3.80
7.0kv/30ma	087	092	270	4.85
8.0kv/30ma	NEW 087	092	270	4.90
9.0kv/30ma	COMPACT 092	092	270	5.38
10.0kv/30ma	MODELS 092	092	270	5.45
12.0kv/30ma	095	095	290	6.45
15.0kv/30ma	100	107	305	7.50

All P.E Transformers can be fitted with dualpro unit giving protection against both open circuit and earth leakage – See below

Resinblock 60 ma, IP44 enclosed, P.E. Type

5.0kv/60 ma	99	92	270	6.15
7.5kv/60 ma	116	107	310	7.0
10.0kv/60 ma	116	107	310	9.6
12.0kv/60 ma	122	140	355	14.3
15.0kv/60 ma	122	140	355	15

Resinblock 120ma, IP44 enclosed, P.E. Type

10kv/120ma	122	140	355	15
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PROTEC : Protection unit, can be used on dimming systems. Will control up to 5amp of transformer load.

Protec is a remote device (can not be exposed to weather) that connects to the “e” terminal of the F.A.R.T transformer and protects against ground fault.

Miniblock 30ma (ideal for use in sign cases and built-up letters)

2.0kv/30ma	46	74	260	2.10
3.0kv/30ma	55	74	260	2.70
4.0kv/30ma	53	74	260	2.75
5.0kv/30ma	66	74	260	3.50
6.0kv/30ma	64	74	260	3.60

DUALPRO - Combined earth leakage and open circuit monitors

Designed by F.A.R.T. in Italy to fit into the PE range of transformers. Gives improved protection as protects against both open circuit and current leakage to earth. Fits underneath lid of transformer.

Models	D.P. 08C (New)	-	7/30 to 12/30 (New compact models)
	D.P. 10L	-	15/30
	D.P. 07B	-	3/30
	D.P. 07C	-	4/30 to 6/30
	D.P. 10M	-	10/60
	D.P. 40P	-	12/60 to 15/60
	D.P. 07D	-	available as replacement units on existing 7.5/30

Spare lids for Transformers

	Dimensions (mm)			Wgt kg
	(H)	(W)	(L)	
DAEHAN (I.P. 44 Type Neon Stone)				
10.0kv/30ma	117	110	249	9.2
12.0kv/30ma	121	110	249	10.85
15.0kv/30ma	121	110	249	10.85

HANSEN CONVERTORS (see Footage chart on back of price list)

3/20ma (160 x 40 x 35mm)

The 3/20ma model has the ability to run both neon and argon tubing in the same circuit, using the technology previously only available in the 8kv model.

3/20ma - Flashing Model – same size and shape as 3/20 with integral flasher

5/20ma – Model with integral Manual Dimmer (205 x 40 x 35mm)

The 5/20ma model has the ability to run both neon and argon tubing in the same circuit, using the technology previously only available in the 8kv model.

5/20ma – Flashing (205 x 40 x 35mm)

This model has an integral flasher which can be speed adjusted on the convertor. It also has a second cable to enable a switch to be connected so that the convertor can be switched to static model without the need to access convertor.

8/20ma – With integral Manual Dimmer (230 x 54 x 46mm)

An extremely popular model because of it's ability to power considerable loads of both neon and argon tubing.

8/20ma – Flashing model

This model has the same features as the 8kv model and as with the 5/20 unit has a separate lead for static/flashing switching if required.

12 volt model Convertor 3kv output
For use on cars etc

MERCURY

Triple distilled 500g

LABELS

Product

- A. DANGER HIGH VOLTAGE
- B. MANUFACTURER'S LABELS - available as large or small
(for details on load, manufacture date, etc.)

L.E.D. TUBING

The L.E.D tube consists of a chain of light emitting diodes. These L.E.D's are arranged on small circuit boards, which are connected by soldered copper wire to form a flexible chain. The entire chain is enclosed in a weatherproof transparent shrinkdown plastic tubing.

The L.E.D's are connected in series by means of a single 4mm (incl. shrinkdown) wire between the 10mm wide circuit boards. Each circuit board contains a special bridge which means that if one of the L.E.D's fails the others will continue to operate. The system is particularly useful for illuminating small 3D acrylic letters.

The L.E.D tube operates on constant current convertors that produce 310 volt D.C. The convertors are very small (127mm longx19mm highx22mm wide) so often can be put inside the letter. One convertor will run 3m of white or blue, or 6m red. Standard colours available Red, Blue, White at 42mm centres.

L.E.D. CIRCUIT BOARD

Now available ex stock.

Christa 22.1 circuit board with white L.E.D at 22.0mm centres operating at 12 volts.

A universal circuit board with a width of only 3mm, making it the ideal choice for applications with limited space. It is particularly suitable for illuminating acrylic panels.

Technical Data

Dimensions (mm)	L.E.D Distance (mm)	Splitable at	Power
261 x 3	22	86.5mm	1.8 watts

Plug pack power supply
(note this will run up to 8 full length circuit boards)

Other circuit boards and colours are available ex factory
(Hansen Neon Germany)

STAR C01 (12 VOLT) L.E.D: IP63

These consist of the Ultra Bright 3 diode lamp manufactured by Samsung sealed in a protective resin shell. At present it is the smallest L.E.D module in the world covered with such a protective resin shell. Suitable for low profile letters from 50mm deep and for both internal and external use. Standard spacing approx. 19 modules per metre. However maximum serial connection is 50 modules.

<u>Module size</u>		
L	W	H
25mm	11mm	7.6mm

STAR C02 (12 VOLT) L.E.D : IP63

These are double L.E.D modules from Samsung in a protective shell. More suitable for illuminating letters with depths of more than 80mm. Standard spacing approx. 8 modules per metre. Each module 0.6 watt. However maximum serial connection is 50 modules.

<u>Module Size</u>		
L	W	H
35mm	20mm	10.5mm

STAR FLEX: IP68

Star Flex is a flexible tube containing White L.E.D at 10mm centres. It can be used to illuminate relatively shallow letters, especially if a groove is routed in the letter backing and the Star Flex is then recessed. This product can also be used in display cabinets and for illuminating small coves etc. It is rated IP68.

	<u>Depth</u>	<u>Width</u>	<u>Power Dissipation</u>
Per length (1010mm)	10mm	4mm	4.6 watts
Maximum serial connection		5 metres	

STARFLEX T10100: IP68

The Starflex T10100 has the identical architecture as the S10100 and its light comes from the top side. Both are brilliant for both indoors and outdoor with its transparent flexible resin to protect itself against tough weather like rain, snow, direct sun light, and dust. It is conveniently possible to cut by every three lamps to fit in any space users require.

STAR C04: IP63

These are a 4 L.E.D module suitable to large scale application, available in White only. Each module is 1.14 watt; maximum serial connection is 50 modules.

<u>Module Size</u>		
L	W	H
35mm	35mm	10.5mm

STAR C0340: IP63

For large letters with depth more than 120mm up to 250mm, each module 0.7watt.

STAR C0640: IP63

Ultra thin bar-type L.E.D module, available in White only.
Power consumption per module 1.4 watt, maximum serial connection is 25 modules.

<u>Module Size</u>		
L	W	H
230mm	10mm	5.5mm

LED Dot Module

Push mount type LED dot to give the effect of mini light bulbs on the face of letters.

Dimension W x H 9.5mm x 21.5mm
Wire length between LED 100mm.

LED Flexible Circuit Board

Particularly useful for edge lighting, acrylic panels, display lighting and small acrylic displays.
LED strip is just 8mm wide and able to be cut every three LED.
Available in white, red, blue and R.G.B. all operate at 12volt D.C.

- White (Code W12 – LED at 17mm centres – 2100 mcd/LED – 4.8 watt
- Blue (Code B12) – LED at 17mm centres – 400 mcd/LED – 4.8 watt
- Red (Code R12) – LED at 17mm centres – 900 mcd/LED – 4.8 watt
- White (higher output) – 3600 mcd/LED – 14 watt

Warm white – LED at 17mm centres
Comes in 5m continuous rolls with self adhesive backing, maximum serial connection 10m.
Maximum serial connection of high output White is 5m.

LED Flexible Circuit Board: IP67

- White – LED at 17mm centres 4.8watts/metre
- Red – LED at 17mm centres 4.8watts/metre
- Warm White (high output) 19watts/metre 6600-8000 mcd /LED

R.G.B (Code RGB12) – LED at 34mm centres – 7.2 watts metre comes on 5m continuous roll.
Also able to be cut every 3 LED.

RGB controller (can control 300 watts RGB)

Note a 12volt power supply is required with RGB controller. Circuit board is designed for internal use only.

Dimmer for LED 12 volt 100watt

POWER SUPPLIES FOR L.E.D

Star Flex, Star C02 and Christa circuit boards all operate at 12 volt D.C.
I have a number of standard power supplies for running these products.

To calculate power supply requirements for 12 volt systems multiply total number of modules by watts and then add in safety factor of 15-20%.

- 35 watts 12 volt }
 - 100 watts 12 volt }
 - 150 watt 12 volt }
 - 200 watt 12 volt }
 - 16 watt 12 volt (plug pack)
- Hansen Convertors 310 volt D.C (for Hansen L.E.D tube)
- Note these supplies have external terminals and must be installed with a sign case or enclosure

I.P 64 POWER SUPPLIES (12 VOLT)

	L	W	H
18 watt	140	30	20
35 watt	145	60	35
60 watt	160	40	35
100 watt	200	70	35

All prices are exclusive of freight and G.S.T.

SOLID STATE RELAYS

90-280 Volt input 50AMP Load Capability
90-280 Volt input 25AMP Load Capability
4-32 Volt DC input 10AMP Load Capability

ELECTRODE COVERS - Bags of 50

12mm	Double back Black, clear, white
12mm	Straight Black, clear, white
15mm	Double back Black, clear or white
15mm	Straight Black, clear or white
18mm	Double back Black

SILICONE BUSHES (For right angle electrodes entering cases)

20mm entry

NONASBESTOS PATTERN PAPER - Per metre

NEON DIMMER – 4 amp

Special Dimmers available on request

TUBE LOADING GUIDE

RESINBLOCK (Transformers for both internal and external use) P.E. TYPE

	NEON				ARGON (Blue Gas)			
	15mm	12mm	10mm	8mm	15mm	12mm	10mm	8mm
15kv	19.5	16	13	11	27	24.5	22	20
12kv	15.5	12.5	11	9	22	19.5	18	16
10kv	13	10	9	7	18.5	16.5	15	13
9kv	11.5	9.5	8	6.5	16.5	14.5	13.5	12
8kv	10.5	8.5	7.5	6	14.5	13	12	10.5
7kv	9.5	7.5	6.5	5	12.5	11.5	10	9
6kv	8	6.5	5.5	4.5	11	9.5	9	8
5.0kv	6.5	5.5	4.5	3.5	9.5	8.5	7.5	6.5
4.0kv	5	4.0	3.5	3.0	7.5	6.5	6.0	5.5
3.0kv	4	3.5	2.5	2	5.5	5	4.5	4

MINIBLOCK (Transformers for use inside Sign Cases and Built Up Letters)

	NEON				ARGON (Blue Gas)			
	15mm	12mm	10mm	8mm	15mm	12mm	10mm	8mm
6kv	8	6.5	5.5	4.5	11	9.5	9	8
5kv	6.5	5.5	4.5	3.5	9.5	8.5	7.5	6.5
4kv	5	4	3.5	3	7.5	6.5	6	5.5
3kv	4	3.5	2.5	2	5.5	5	4.5	4
2kv	2.5	2	1.8	1.6	4	3.5	3	2.5

The above chart should be use as a guide only. For this chart allow 0.5m for each pair of electrodes.

See instructions overleaf for correct loading using milliamp metre.

HANSEN TUBE LENGTH CHART

Output in meters

Please note all convertors can run less meterage without harm

Slimline Model	3.000 Volt Blue Gas (Outdoor)				5.000 VOLT Blue Gas			
Suitable for indoor & outdoor use	<i>diameter</i>	10	12	15	<i>diameter</i>	10	12	15
2 tubes		3.2	4.0	5.0	4 tubes	6.4	8.0	9.7
3 tubes		2.8	3.5	4.3	5 tubes	6.0	7.5	9.1
4 tubes		2.4	3.0	3.7	6 tubes	5.6	7.0	8.5
5 tubes		2.0	2.5	3.1	7 tubes	5.2	6.5	7.9
6 tubes		1.6	2.0	2.5	8 tubes	4.8	6.0	7.3

Blue Gas (Indoor)				Red Gas (Neon)				
	<i>diameter</i>	10	12	15	<i>diameter</i>	10	12	15
2 tubes		4.0	5.0	6.0	4 tubes	3.3	4.0	5.0
3 tubes		3.6	4.5	5.4	5 tubes	3.0	3.7	4.6
4 tubes		3.2	4.0	4.8	6 tubes	2.8	3.4	4.2
5 tubes		2.8	3.5	4.2	7 tubes	2.5	3.1	3.8
6 tubes		2.4	3.0	3.6	8 tubes	2.2	2.7	3.4

Red Gas (Neon)				8.000 Volt Blue Gas				
	<i>diameter</i>	10	12	15	<i>diameter</i>	10	12	15
2 tubes		2.1	2.5	3.2	4 tubes	10.8	13.5	16.4
3 tubes		1.8	2.2	2.8	5 tubes	10.4	13.0	15.8
4 tubes		1.5	1.9	2.4	6 tubes	10.0	12.5	15.2
5 tubes		1.3	1.6	2.0	7 tubes	9.6	12.0	14.6
6 tubes		1.0	1.2	1.6	8 tubes	9.2	11.5	14.0

Red Gas (Neon)				
	<i>diameter</i>	10	12	15
4 tubes		5.7	6.9	8.6
5 tubes		5.4	6.6	8.2
6 tubes		5.1	6.3	7.8
7 tubes		4.9	6.0	7.4
8 tubes		4.6	5.6	7.0