## FIRE ALARM EQUIPMENT



### **FEATURES**

- > Unique low-profile design
- > Attractive appearance
- > Ultra-slim protrudes les than one inch from wall
- > No visible mounting screws
- > Exclusive FullLight<sup>®</sup> Strobe Technology
- > Low current draw
- > 15/30/75/110 and 95-177 candela output models
- > High (default) or low dB horn
- > Temporal (default) or steady horn
- Public mode flash rate (default) or private mode temporal flash

#### **AGENCY APPROVALS**

- > UL 1971 Listed for the hearing impaired
- > UL 1638 Listed as protective visual signaling appliances
- > UL 464
- > ULC S525 & S526
- > CE Marked
- > FCC
- > MEA, FM, CSFM pending

# Genesis® Horns, Strobes & Horn/Strobes

*Field Configurable Horn & Strobe Output* 

**EG1\* Series** 

The Genesis line of signals are the smallest, most compact audible and visible emergency signaling devices in the world. About the size of a deck of playing cards, these devices are designed to blend with any building environment. Edwards Genesis horn/strobes do not require bulky specular reflectors. Instead, an exclusive mask-and-cavity design, channels and conditions light to produce a highly controllable distribution pattern. Intensive development employing this new technology have given rise to a new benchmark in strobe performance – FullLight<sup>®</sup> technology.

The EG1-HDVM series hom/strobes offer 15 to 110 candela output, which is selectable with a conveniently-located switch on the side of the device. The EG1-HDVMH series offers 95 to 177 candela output. The candela output setting remains clearly visible even after final installation, yet it stays locked in place to prevent unauthorized tampering. Its horn output reaches as high as 99 dB and features a unique multiple frequency tone that results in excellent wall penetration and an unmistakable warning of danger. Homs may be configured for either coded or non-coded signal circuitsThey can also be set for low dB output with a jumper cut that reduces horn output by 5 dB.

When installed with the Cat.No. EG1M Signal Master, strobe flashes from devices on the same circuit are synchronized to within 10 milliseconds of each other indefinitely The Signal Master also permits independent horn control over a single pair of wires. Only one Signal Master is required per circuit. No separate backbox simply snap it onto the back of the first signal on the circuit.

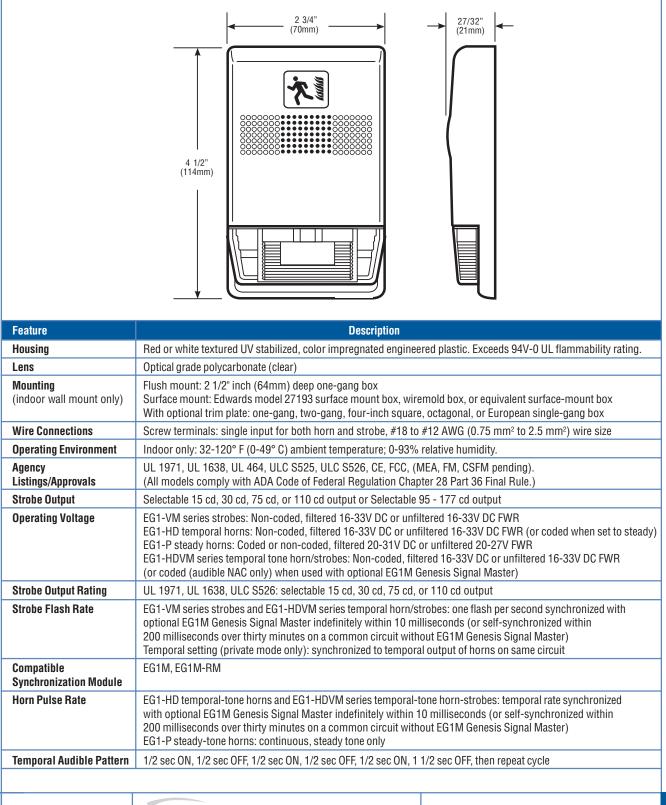
\*Insert "R" for red, "W" for white "RF" for red with fire marking, "F" for white with fire marking.



## FIRE ALARM EQUIPMENT



#### **TECHNICAL INFORMATION**





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15cd	RMS	30cd	RMS	75cd RMS		110cd RMS		
12	<u>29</u>	167		281		337		
17	76	230		397		443		
ırrent (l	Measure	ed by Ec	lwards)					
15cd		30cd		75cd		110cd		
RMS	mean	RMS	mean	RMS	mean	RMS	mean	
102	89	135	129	246	242	309	305	
88	77	109	104	193	190	248	243	
81	71	94	90	161	158	203	200	
74	64	72	74	124	121	154	151	
144	77	182	106	352	212	393	249	
141	68	162	87	274	158	362	210	
136	65	152	76	235	133	282	165	
125	54	144	65	201	101	232	123	
	Diate Ra 15cd 12 17 17 17 17 17 17 17 17 17 17 102 88 81 102 88 81 74 144 144 141 136	Alternation       129       176       176       176       176       176       176       176       177       88       77       81       74       64       144       77       136	late Rating (UL1971, 1       15cd RMS     30cd       12     1       17     2       17     2       18     31       102     89       102     89       11     109       81     71       94     74       144     77       182     162       136     65	Date Rating (UL1971, Effective       15cd RMS       30cd RMS $12^9$ $16^7$ 176       230       ITER       ITER <th colspa<="" td=""><td>late Rating (UL1971, Effective May 20       <b>30cd RMS 75cd</b>       15cd     <b>75cd</b>       129     167     24       176     230     39       <b>30cd RMS 75cd</b>       176     230     39       <b>80% 75 RMS 80% 106 75 80% 80% 106 80% 102 80%</b>       102     89     135     129     246       88     77     109     104     193       81     71     94     90     161       74     64     72     74     124       141     68     162     87     274       136     65     152     76     235</td><td>Date Rating (UL1971, Effective May 2004)       15cd RMS     30cd RMS     75cd RMS       129     167     281       176     230     397       Internet Way 2004)       Internet Way 2004       Internet Way 2004     Internet Way 2004       Internet Way 2004       Internet Way</td><td>15cd RMS         30cd RMS         75cd RMS         110cd           129         167         281         33           176         230         397         44           urrent (Measured by Edwards)         75cd RMS         10cd         10cd           15cd         30cd         RMS         mean         RMS         75cd         74           176         230         397         44           176         230         75cd         74         74           176         230         75cd         75cd         74         74           176         230         397         44         75cd         74         74           176         305cd         75cd         75cd         75cd         71         74           170         89         135         129         246         242         309         248           81         71         94         90         161         158         203           74         64         72         74         124         121         154           144         77         182         106         352         212         393           144</td></th>	<td>late Rating (UL1971, Effective May 20       <b>30cd RMS 75cd</b>       15cd     <b>75cd</b>       129     167     24       176     230     39       <b>30cd RMS 75cd</b>       176     230     39       <b>80% 75 RMS 80% 106 75 80% 80% 106 80% 102 80%</b>       102     89     135     129     246       88     77     109     104     193       81     71     94     90     161       74     64     72     74     124       141     68     162     87     274       136     65     152     76     235</td> <td>Date Rating (UL1971, Effective May 2004)       15cd RMS     30cd RMS     75cd RMS       129     167     281       176     230     397       Internet Way 2004)       Internet Way 2004       Internet Way 2004     Internet Way 2004       Internet Way 2004       Internet Way</td> <td>15cd RMS         30cd RMS         75cd RMS         110cd           129         167         281         33           176         230         397         44           urrent (Measured by Edwards)         75cd RMS         10cd         10cd           15cd         30cd         RMS         mean         RMS         75cd         74           176         230         397         44           176         230         75cd         74         74           176         230         75cd         75cd         74         74           176         230         397         44         75cd         74         74           176         305cd         75cd         75cd         75cd         71         74           170         89         135         129         246         242         309         248           81         71         94         90         161         158         203           74         64         72         74         124         121         154           144         77         182         106         352         212         393           144</td>	late Rating (UL1971, Effective May 20 <b>30cd RMS 75cd</b> 15cd <b>75cd</b> 129     167     24       176     230     39 <b>30cd RMS 75cd</b> 176     230     39 <b>80% 75 RMS 80% 106 75 80% 80% 106 80% 102 80%</b> 102     89     135     129     246       88     77     109     104     193       81     71     94     90     161       74     64     72     74     124       141     68     162     87     274       136     65     152     76     235	Date Rating (UL1971, Effective May 2004)       15cd RMS     30cd RMS     75cd RMS       129     167     281       176     230     397       Internet Way 2004)       Internet Way 2004       Internet Way 2004     Internet Way 2004       Internet Way 2004       Internet Way	15cd RMS         30cd RMS         75cd RMS         110cd           129         167         281         33           176         230         397         44           urrent (Measured by Edwards)         75cd RMS         10cd         10cd           15cd         30cd         RMS         mean         RMS         75cd         74           176         230         397         44           176         230         75cd         74         74           176         230         75cd         75cd         74         74           176         230         397         44         75cd         74         74           176         305cd         75cd         75cd         75cd         71         74           170         89         135         129         246         242         309         248           81         71         94         90         161         158         203           74         64         72         74         124         121         154           144         77         182         106         352         212         393           144

### **Current Data**

EG1-HDVM WALL MOUNT HORN/STROBES - LOW dB SETTING								
UL Nameplate Rating (UL1971, Effective May 2004)								
	15cd	RMS	30cd RMS		75cd RMS		110cd RMS	
16 Vdc	12	22	160		274		330	
16 Vfwr	16	62	216		383		429	
Typical Ci	urrent (l	Measure	ed by Ec	lwards)				
	15	cd	30cd		75cd		110cd	
	RMS	mean	RMS	mean	RMS	mean	RMS	mean
16 Vdc	96	84	130	124	243	240	203	297
20 Vdc	79	70	104	99	189	186	241	237
24 Vdc	68	61	88	84	156	154	197	193
33 Vdc	56	52	71	68	118	116	146	143
16 Vfwr	128	69	80	104	344	204	389	244
20 Vfwr	118	60	157	84	266	156	243	200
24 Vfwr	113	54	144	74	230	128	279	161
33 Vfwr	112	48	137	64	197	99	226	117

EG1-P WALL MOUNT PIEZO HORNS					
UL Namep	late Rating (UL1971, 5/04)	Typical Current			
	RMS	RMS	Mean		
20 Vdc	9	10	10		
24 Vdc	10	11	11		
31 Vdc	12	12	12		
20 Vfwr	8	9	8		
24 Vfwr	9	10	9		

EG1-VM WALL MOUNT STROBES								
UL Nameplate Rating (UL1971 Standard (revised) Effective 5/04)								
	15cd	RMS	30cd RMS		75cd RMS		110cd RMS	
16 Vdc	1(	)3	141		255		311	
16 Vfwr	12	25	179		346		392	
Typical Ci	urrent (l	Measur	ed by Ec	lwards)				
	15	cd	30cd		75cd		110cd	
	RMS	mean	RMS	mean	RMS	mean	RMS	mean
16 Vdc	85	79	127	124	245	243	285	283
20 Vdc	71	66	98	96	188	186	240	238
24 Vdc	59	55	82	80	152	150	191	190
33 Vdc	46	44	64	63	112	111	137	136
16 Vfwr	119	64	169	97	332	203	376	240
20 Vfwr	103	51	143	76	253	150	331	198
24 Vfwr	94	44	129	65	218	121	262	152
33 Vfwr	87	37	112	52	179	89	205	106

#### **CURRENT DATA NOTES & COMMENTS**

EG1-HD WALL MOUNT TEMPORAL HORNS UL Nameplate Rating (UL1971, Effective May 2004)

16 Vdc

24 Vdc

33 Vdc

16 Vfwr

24 Vfwr

33 Vfwr

16 Vdc

20 Vdc

24 Vdc

33 Vdc

16 Vfwr

20 Vfwr

24 Vfwr

33 Vfwr

High dB RMS

26

36

41

51

69

76

High dB

Mean

17

19

21

25

15

19

21

24

Typical Current (Measured by Edwards)

RMS

22

24

27

32

34

40

45

52

- 1. Current values are shown in mA.
- 2. UL Nameplate Rating can vary from Typical Current due to measurement methods and instruments used.

Low dB RMS

19

27

33

37

52

70

Low dB

Mean

14

16

18

22

14

16

18

22

RMS

17

19

22

26

30

34

38

47

- 3. Edwards recommends using the Typical current for system design including NAC and Power Supply loading and voltage drop calculations.
- 4. Use the Vdc RMS current ratings for filtered power supply and battery AH calculations. Use the Vfwr RMS current ratings for unfiltered power supply calculations.
- 5. Fuses, circuit breakers and other overcurrent protection devices are typically rated for current in RMS values. Most of these devices operate based upon the heating affect of the current flowing through the device. The RMS current (not the mean current) determines the heating affect and therefore, the trip and hold threshold for those devices.
- 6. Our industry has used 'mean' currents overthe years. However, UL will direct the industry to use the 2004 RMS values in the future.



# FIRE ALARM EQUIPMENT



dBA OUTPUT - HIGH dB SETTING							
Peak							
'Steady							
2							
6							
5							

EG1-P dB OUTPUT					
	UL464	Average	Peak		
20 Vdc	76.7	89.5	91		
24 Vdc	77.1	90	91.1		
31 Vdc	77.2	90.4	91.6		

Genesis horns and strobes mount to any standard one-gang surface or flush electrical box. Matching optional trim plates are used to cover oversized



Genesis Hornstrobe with optional

trim plate

be turned on

openings and can accommodate one-gang, two-gang, four-inch square, or octagonal boxes, and European 100 mm square.

Temporal models are factory set to sound in a three-pulse temporal pattern. Units may be configured for use with coded systems by cutting a jumper on the circuit board. This results in a steady output that can and off (coded) as the system

applies and removes power to the signal circuit. A

dBA OUTPUT - LOW dB SETTING						
	UL4	64	Average	Peak		
	Temporal Steady		Temporal/Steady	Temporal/Steady		
16 Vdc	76.0	80.1	86.3	89.2		
24 Vdc	79.4	83.5	89.8	92.5		
33 Vdc	82.1	86.5	92.5	95.3		

#### dba notes

1. All values shown are dBA measured at 10 feet (3.01m).

2. UL 464 values measured in reverberation room.

3. Average and Peak values are measured in anechoic chamber.

Genesis Signal Master is required when horn-strobe models are configured for coded systems. Nontemporal, horn-only models sound a steady tone. Models are shipped from the factory ready for use as UL 1971 compliant signals for public mode operation. These signals may be configured for temporal flash be cutting a jumper on the circuit board.

Strobes and horn-strobes may be set for 15, 30, 75 or 110 candela output. The device does not have to be removed to change the output setting. The setting remains visible through a small window on the side of the device after the cover is closed.

Models are factory set for high dB output. Low dB output may be selected by cutting a jumper on the circuit board which reduces the output by about 5 dB.

ORDERING INFORMATION					
Catalog White	Number Red	Description			
EG1-HDVM	EG1R-HDVM	Genesis Horn/Strobe (selectable 15, 30, 75, or 110 cd output, selectable high/low dB output)			
EG1-VM	EG1R-VM	Genesis Strobe (selectable 15, 30, 75, or 110 cd output)			
EG1-HD	EG1R-HD	Genesis Temporal Horn (selectable high/low dB output)			
EG1-P	EG1R-P	Genesis Steady Horn (not compatible with Genesis Signal Master)			
EG1F-HDVM	EG1RF-HDVM	Genesis Horn/Strobe (selectable 15, 30, 75, or 110 cd output, selectable high/low dB output) - with "FIRE" marking			
EG1F-VM	EG1RF-VM	Genesis Strobe (selectable 15, 30, 75, or 110 cd output) - with "FIRE" marking			
EG1F-HD	EG1RF-HD	Genesis Temporal Horn (selectable high/low dB output) - with "FIRE" marking			
EG1F-P	EG1RF-P	Genesis Steady Horn with "FIRE" marking (not compatible with Genesis Signal Master)			
Mounting Acce	ssories				
EG1T	EG1RT	Genesis Trim Plate (for two-gang or 4" square boxes)			
EG1T-FIRE	EG1RT-FIRE	Genesis Trim Plate (for two-gang or 4" square boxes) with "FIRE" markings			
27193-16	27193-11	One-gang surface mount box			
Synchronization Modules					
EG1M		Genesis Signal Master - Snap-on Mount			
EG1M-RM		Genesis Signal Master - Remote Mount (1-gang)			
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