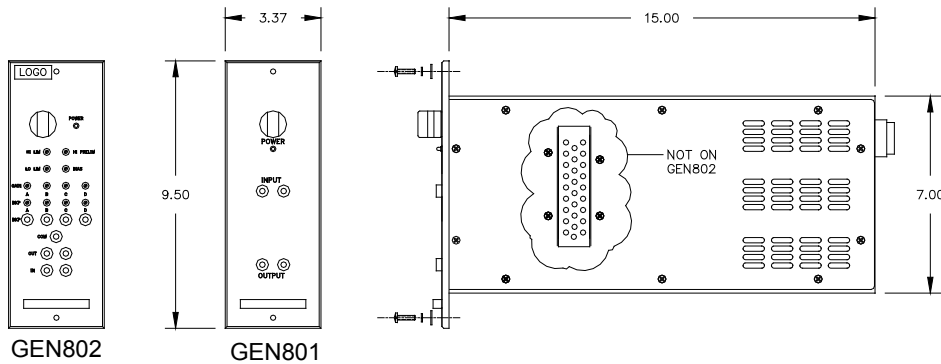


The GEN801 Function Generator replaces the obsolete Hagan 7100 function generator, and performs piecewise manipulation of a single input signal. Output functions include convex and concave curves, with increasing and decreasing slopes, and gull-wing functions.

The standard GEN800 and GEN801 provide up to eight breakpoints, with mode panel control of applicable settings for breakpoint and segment gain. The GEN 802 limits the function to four breakpoints, but moves the applicable controls to the front panel, and provides better control over large gain segments, such as in gull-wing configurations.



GEN801



SPECIFICATIONS

Power Supply Voltage:	120 Vac RMS ($\pm 10\%$), 60 Hz ($\pm 5\%$)
Power Consumption:	8.5 W typical., 12W, 16 VA maximum
Accuracy:	$\pm 0.25\%$ of output span for span (Includes effects of linearity, repeatability, hysteresis, zero shift and span error)
Dielectric Withstand:	2500 Vdc and 1000 Vac (RMS) from input to output
	1000 Vdc and 1000 Vac (RMS) from input to case
Credible Live Fault:	480 Vac, 140 Vdc at 20 A
Surge Withstand:	Using the waveform described in IEEE-472-1974
Temperature Effects:	Less than 0.022% change of output full scale for each 1 °F change in temperature (within operating limits) for overall module gains less than 10
Electrical Qualification:	Plant protection, qualified to IEEE 323 1974/1983 and IEEE 344 1975/1987
Ambient Temperature:	35 °F to 122 °F (2 °C to 50 °C) (normal operation)
	122 °F to 135 °F (50 °C to 57 °C) (abnormal operation for 200 hours)
	-40 °F to 185 °F (-40 °C to 85 °C) (storage)
Relative Humidity:	0% RH to 95% RH, non-condensing
Pressure:	Atmospheric
Radiation Limits:	10^4 rad TID gamma over forty years

NUSI 800 Series

Function Generator

HOW TO ORDER

The model number and configuration typically should be specified as follows:

Example: GEN801-05-07-08

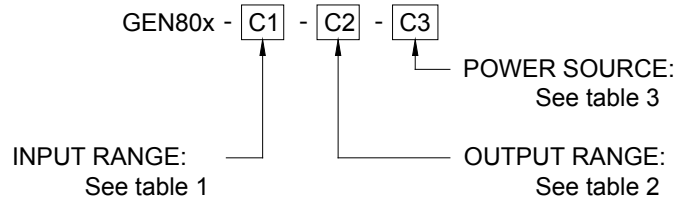


Table 1 — Input Range			Table 2 — Output Range		
Code	Input Range	Impedance Ω	Code	Output Range	Impedance Ω
00	Not Loaded		00	Not Loaded	
01	0 to 100 mVdc	100 M	01	0 to 100 mVdc	32.9
02	0 to 51 mVdc	100 M	02	0 to 51 mVdc	17.3
03	0 to 1 Vdc	100 M	03	0 to 1 Vdc	299
04	0 to 5 Vdc	100 M	04	0 to 5 Vdc	825
05	1 to 5 Vdc	5.2 M	05	1 to 5 Vdc	825
06	0 to 10 Vdc	400 k	06	0 to 10 Vdc	1000
07	4 to 20 mA dc	249	07	4 to 20 mA dc	1050 *
08	10 to 50 mA dc	100	08	10 to 50 mA dc	600 *
09	0 to 1 mA dc	50	09	0 to 180 mA dc	59.3
10	0 to 132 Vac	3.4 M	10	0 to 3.5 Vac	825
11	0 to 20 mA dc	249	11	0 to 20 mA dc	1050 *
12	0 to 50 mA dc	100	12	0 to 50 mA dc	600 *
13	50 to 10 mA dc	100	13	1 to 5 Vdc	249
14	Variable	1 M	14	10 to 44.29 mA dc	660 *
15	0 to 8 Vdc	428 k	15	N/A	
16	-10 to 10 Vdc	3.7 M	16	0 to 1 mA dc	30 k *
17	-2 to 15 Vdc	2.4 M	17	4 to 22.49 mA dc	1050 *
18	5 to 1 Vdc	100 M	18	10 to 56.22 mA dc	550 *
19	3.6 to 11.6 Vdc	477 k			
20	2 to 10 Vdc	427 k			
21	-2 to 2 Vdc	3.5 M			
22	-20 to 20 mA dc	249			
23	N/A				
24	1 to 2 Vdc	3.2 M			
25	0 to 4 Vdc	100 M			
26	10 to 32.4 mA dc	200			
27	4 to 10 mA dc	475			
28	0 to 10 V (Hi-Z)	1013			
29	0 to 120 Vdc	2.5 M			
30	Group 1 Selectable	Varies			
31	2, 4 or 10 Vdc	Varies			
32	0 to 2 Vdc	100 M			
33	0 to 3.45 Vdc	100 M			
34	1.08 to 5.4 Vdc	5.2 M			

Table 3 — Power Source	
Code	Power
00	Not Loaded
01	$\pm 15 \pm 1$ Vdc
02	28 ± 2 Vdc
03	5 ± 0.25 Vdc
04	12 ± 1 Vdc
05	15 ± 1 Vdc
06	24 ± 2 Vdc
07	48 ± 2 Vdc
08	85 to 132 Vac, 125 Vdc

* These are not output impedances; these are the output drive capabilities of the current output models.

CONTACT INFORMATION:

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