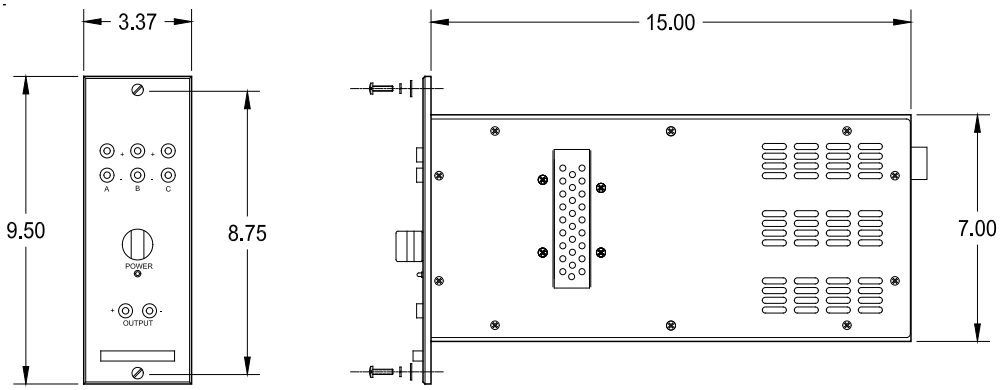
The HLS801 High/Low Signal Selector replaces the obsolete Hagan 7100 high and low signal selectors, and provides either high or low signal selection from two or three inputs as determined by user-configurable jumpers on the main PC board. User-defined gain and bias, and filtering and high/low limiting, can be applied to a selected signal through a mode panel in the side cover.

The only difference between the HLS801 and the NUSI 800 Series MSS801 Median Signal Selector (other than jumper settings on the main PC board) is the rear connector output pin configuration. The HLS801 uses pins M+ and N–; the MSS801 uses pins P+ and K–.

HLS801



SPECIFICATIONS

Power Supply Voltage:	117 Vac RMS (±10%), 60 Hz (±5%)
Power Consumption:	8.5 W typical, 12 W, 16 VA maximum
Accuracy:	±0.25% of output 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

High/Low Signal Selector

HOW TO ORDER

The model number and configuration typically should be specified as follows:
Example: HLS801-05/05/05/00-07-08

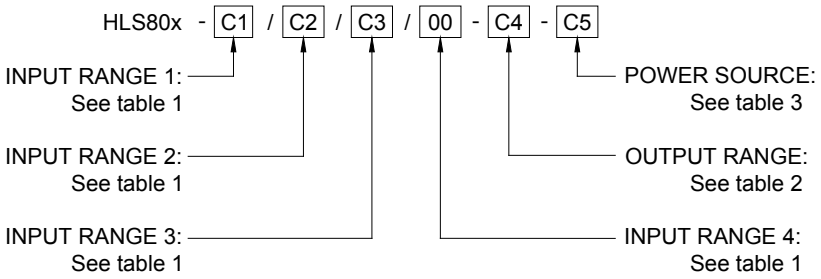


Table 1 — Input Range

Code	Input Range	Impedance Ω
00	Not Loaded	
01	0 to 100 mVdc	100 M
02	0 to 51 mVdc	100 M
03	0 to 1 Vdc	100 M
04	0 to 5 Vdc	100 M
05	1 to 5 Vdc	5.2 M
06	0 to 10 Vdc	400 k
07	4 to 20 mA dc	249
08	10 to 50 mA dc	100
09	0 to 1 mA dc	50
10	0 to 132 Vac	3.4 M
11	0 to 20 mA dc	249
12	0 to 50 mA dc	100
13	50 to 10 mA dc	100
14	Variable	1 M
15	0 to 8 Vdc	428 k
16	–10 to 10 Vdc	3.7 M
17	–2 to 15 Vdc	2.4 M
18	5 to 1 Vdc	100 M
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 2 — Output Range

Code	Output Range	Impedance Ω
00	Not Loaded	
01	0 to 100 mVdc	32.9
02	0 to 51 mVdc	17.3
03	0 to 1 Vdc	299
04	0 to 5 Vdc	825
05	1 to 5 Vdc	825
06	0 to 10 Vdc	1000
07	4 to 20 mA dc	1050 *
08	10 to 50 mA dc	600 *
09	0 to 180 mA dc	59.3
10	0 to 3.5 Vac	825
11	0 to 20 mA dc	1050 *
12	0 to 50 mA dc	600 *
13	1 to 5 Vdc	249
14	10 to 44.29 mA dc	660 *
15	N/A	
16	0 to 1 mA dc	30 k *
17	4 to 22.49 mA dc	1050 *
18	10 to 56.22 mA dc	550 *

Table 3 — Power Source

Code	Power
00	Not Loaded
01	±15 ±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.

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