

## Hoyt Analog Switchboard Meters

- Measure Amps, Volts, Hz, Watts, VARs, or Power Factor
- Mini Size: 3.25" Square
- Meets ANSI C39.1
- 1% Accuracy (Amps & Volts)
- 250° Scale


**HLS-80**


### SPECIFICATIONS

Accuracy:	DC: $\pm 1.0\%$ of Full Scale AC rectifier type: $\pm 1.0\%$ of Full Scale Frequency: $\pm 0.15\text{Hz}$ Power: $\pm 1.0\%$ of Full Scale
Overload:	Voltmeters: 50% momentary / 20% prolonged Ammeters: 50% momentary / 20% prolonged Frequency meters: 20% maximum Power meters: 20% maximum
Burden:	5A AC input: 0.5VA maximum
Construction:	Black plastic case, terminal strip connections
Dimensions:	3.23" x 3.23" front, 3.33" behind panel
Panel Cutout:	2.64" dia
Mounting:	Four studs (0.16" dia holes)

### Standard Ranges

DC	1, 4-20mA 50mV shunt rated (specify scale) 30, 50, 100, 150, 300V
AC	1, 2, 5, 10, 15, 20, 30A 5A CT rated (10, 15, 20, 25, 50, 100, 250, 500, 1000, 2500, 5000A scale) 150, 300, 600V 150V PT rated (300, 600, 750, 3000, 6000V scale)
Hz	45-55, 45-65, 55-65Hz (specify 120 or 240V)
kW	1 phase, 2 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase, 3 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase 4 wire 120VAC, 5AAC (specify scale, CT ratio, PT ratio)
kVAR	1 phase, 2 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase, 3 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase 4 wire 120VAC, 5AAC (specify scale, CT ratio, PT ratio)
PF	0.5 lag - 0.5 lead; 1 phase, 2 wire, 120VAC, 5AAC (also 4 wire balance) 0.5 lag - 0.5 lead; 3 phase, 3 wire, 120VAC, 5AAC (also 4 wire balance)

### Options:

[Custom Ranges](#)  
[Custom Scales](#)  
[Special Legends](#)  
[Custom Logos](#)  
[Anti-glare Window](#)

- Measure Amps, Volts, Hz, Watts, VARs, or Power Factor
- Standard Size: 4.5" Square
- Meets ANSI C39.1
- 1% Accuracy (Amps & Volts)
- 250° Scale


**HLS-110**


### SPECIFICATIONS

Accuracy:	DC: $\pm 1.0\%$ of Full Scale AC rectifier type: $\pm 1.0\%$ of Full Scale Frequency: $\pm 0.15\text{Hz}$ Power: $\pm 1.0\%$ of Full Scale
Overload:	Voltmeters: 50% momentary / 20% prolonged Ammeters: 50% momentary / 20% prolonged Frequency meters: 20% maximum Power meters: 20% maximum
Burden:	5A AC input: 0.5VA maximum
Construction:	Black plastic case, terminal strip connections
Dimensions:	4.33" x 4.33" front, 3.70" behind panel
Panel Cutout:	4.055" dia
Mounting:	Four studs (0.26" dia holes)

### Standard Ranges

DC	1, 4-20mA 50mV shunt rated (specify scale) 30, 50, 100, 150, 300V
AC	1, 2, 5, 10, 15, 20, 30A 5A CT rated (10, 15, 20, 25, 50, 100, 250, 500, 1000, 2500, 5000A scale) 150, 300, 600V 150V PT rated (300, 600, 750, 3000, 6000V scale)
Hz	45-55, 45-65, 55-65Hz (specify 120 or 240V)
kW	1 phase, 2 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase, 3 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase 4 wire 120VAC, 5AAC (specify scale, CT ratio, PT ratio)
kVAR	1 phase, 2 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase, 3 wire, 120VAC, 5AAC (specify scale, CT ratio, PT ratio) 3 phase 4 wire 120VAC, 5AAC (specify scale, CT ratio, PT ratio)
PF	0.5 lag - 0.5 lead; 1 phase, 2 wire, 120VAC, 5AAC (also 4 wire balance) 0.5 lag - 0.5 lead; 3 phase, 3 wire, 120VAC, 5AAC (also 4 wire balance)

### Options:

[Custom Ranges](#)  
[Custom Scales](#)  
[Special Legends](#)  
[Custom Logos](#)  
[Anti-glare Window](#)  
[NEMA4, IP65 Gasket](#)  
[Metal Case](#)  
[Illumination](#)