



What will POWER GENERATION look like in the future?



Power and Utility Solutions

The power and utility industry is facing new challenges to keep up with the ever growing demand for clean electricity. This evolving environment requires products that are diverse, reliable, and rugged to withstand the test of time. With solutions by Hoyt for electrical or process control you can find the right products to solve the problem. Let our 100+ years of design and manufacturing experience in the USA do the work for you.



Analog Solutions



Application or Process Example	Options	LS-110 Series	HST-70U / 90U Series	Industrial Round 250 Series	3100 Series or ST-75 Series	5000 Series Combo Meter (Analog/Digital)
Main or auxiliary power (switchboard)	AC Volts (Volts)	✓	✓	✓	✓	✓
Solar panel output	DC Volts (Volts)	✓	✓	✓	✓	✓
Measurement in electrical panels (transformers)	AC Current (Amps)	✓	✓	✓	✓	✓
Current draw from motors or batteries	DC Current (Amps)	✓	✓	✓	✓	✓
AC power supply or speed control	Frequency	✓	✓		✓	✓
Working and reactive power measurement	Kilowatts/Var	✓				
AC electrical (real power)	Power Factor	✓				
Machine or vehicle diagnostics	Speed or Temp			✓		
Harsh environments NEMA 4 / ANSI C39.1	Ingress Protection		✓	✓		
Drop in verified replacement	UL Listed	✓	✓			
Form, fit, function	Surface Mount	✓ 4 Stud	✓ 3 or 4 Stud	✓ 2 Stud	✓ 2, 3, or 4 Stud	✓ 2, 3, or 4 Stud
Form, fit, function	Window Mount			✓	✓	
Form, fit, function	Bezel Mount				✓	
Proven movement for most applications	Pivot & Jewell	✓	✓	✓	✓	✓
High accuracy, low friction movement	Taut Band		✓		✓	
AC direct repulsion solution	Iron Vane	✓	✓	✓	✓	✓
Form, fit, function	Size	4.5"	2.5", 3.5"	2", 3", 3-3/8", 4.5"	1.5", 2.5", 3.5", 4.5"	3.5"
Form, fit, function	Case Style	Switchboard	Square	Round	Rectangular	Square

Specifications are subject to change. This is just a small representative of our total product offering.

Digital Meters



Application or Process Example	Options	Alpha 50A+ or 70A+	N30 Series	DLA Series	NA Series (Bargraph)
2, 3, or 4 wire (3 Phase Power)	AC Volts (Volts)	✓	✓	✓	
Battery bank monitor for wind turbines	DC Volts (Volts)		✓	✓	✓
Motor efficiency monitoring	AC Current (Amps)	✓	✓	✓	
Alternator, generator, or battery readout	DC Current (Amps)	✓	✓	✓	✓
Sags & swell detection (power quality)	Frequency	✓	✓		
Three or single phase power electrical parameters (demand)	Kilowatts/Var	✓	✓		
Phaser diagram or waveforms	Power Factor	✓			
TC's or RTD (process measurement)	Resistance/ Temperature		✓		✓
Durability – resistance to water	Ingress Protection	IP54 (Front)	IP65 (Front)	IP40 (Front)	IP50 (Front)
Real time monitoring capability	Digital Outputs	RS-485	RS-485		RS-485
Form, fit, function	Size	ANSI or DIN 114mm or 96mm	3.78" x 1.89" 96 x 48mm	1.5" x 0.838" 35mm x 21mm	1.89" x 5.67" 48mm x 144mm
Flexible scaling to fit the application	Programmable	✓ Touchscreen	✓ Keypad or RS-485	✓ Choose type	✓ Keypad or RS-485
Alerting personnel based on a condition	Alarms/Relays	✓	✓		✓
Ability to read in poorly lit areas	Display/Digits	Graphic	5 Digit LED	4½ Digit LED	48 or 27 segment 4½ Digits LED
Drop in verified replacement	UL Listed	✓	✓		✓
Monitoring multiple parameters at once	Multifunction	✓			
Multiple applications (AC or DC)	Power Input	20-40V AC/DC 60-300V AC/DC	20-40V AC/DC	5-40V DC 5-264V AC	20-40V AC/DC 95-253V AC/DC
PLC or DCS Monitoring	Analog Outputs	✓	✓		✓

Analog Solutions



Digital Solutions



Gas Portable



Diesel Portable



Natural Gas

Product Solutions

Transformers



Current Transformers (CTs)

Reduce current for monitoring with ammeters, wattmeters, and cross current consumption.

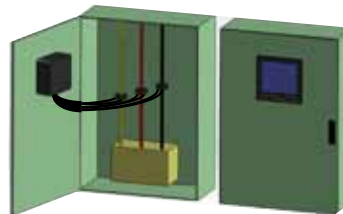
Select type (rectangular, solid core, split core or wound primary) for easy installation.



Potential Transformers (PTs)

Reduce voltage for any indoor or outdoor application (group, rating, ratio, fused or unfused).

Select low, medium, or high voltage based on accuracy level and approvals (UL and CSA).



Shunts



LA or LB Base Mount Shunt

Track the state of batteries in wind and solar by monitor current flowing.

These shunts create a mV signal which is easier and less costly to install.

Hoyt Electrical Instrument Works

23 Meter Street, Penacook NH 03303

800-258-3652 sales@hoytmeter.com