

# LEM

Life Energy Motion

# HIGH PRECISION SOLUTIONS

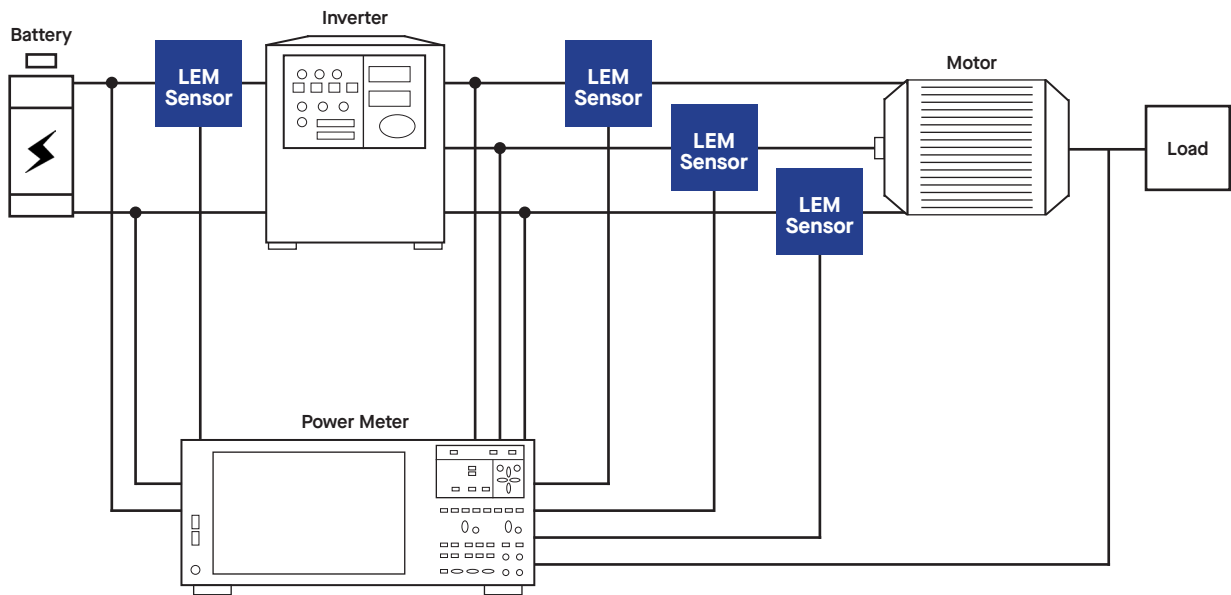
Electrical Measurement Solutions for High Precision Applications



# High Precision Solutions

Highly precise current measurement is key to equipment performance. Minor inaccuracies can lead to major problems. High precision current sensors accurately measure electrical current, typically in applications where precision is critical, such as in industrial automation, renewable energy, power supplies, and high-end electronics. These sensors are designed to deliver highly accurate readings even in the presence of noise or varying environmental conditions. Whether for medical equipment or other industrial applications, LEM's current sensors set the standard for precise current measurement and accuracy.

## Electrical Layout:



CV



DV



IN



IST

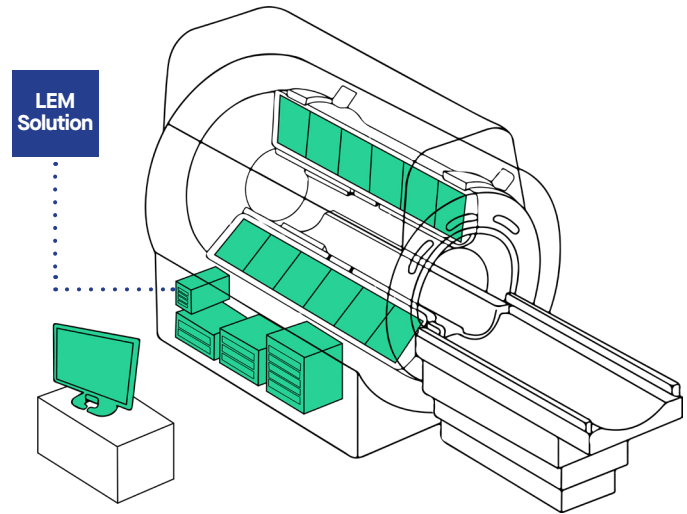


IT

<b>Bandwidth</b>	6kHz - 700kHz	12kHz	140kHz - 1100kHz	60Hz	500kHz - 800kHz
<b>Consumption</b>	32mA - 35mA	25mA	0.07A - 1.87A	200W	80mA
<b>Current Range Max</b>	130V - 6000V	1200V - 4200V	300A - 3000A	60A - 2000 A	60A - 1000A
<b>Supply Voltage</b>	15V - 24V	13.5V - 26.4V	15V	100V - 240 V	15V
<b>Mounting</b>	Panel	Panel	Panel	-	Panel
<b>Output</b>	Voltage	Voltage	Current	Voltage / Current	Current
<b>Overall Accuracy</b>	0.2% - 1%	0.3% - 1.2%	0.0012% - .0075%	-	0.02725%
<b>Technology</b>	Closed Loop Fluxgate	Insulation Digital	Closed Loop Fluxgate	Power Supply	Closed Loop Fluxgate

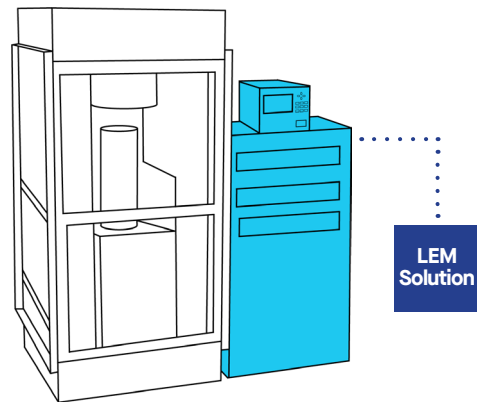
# Medical Equipment

Medical devices, such as imaging equipment, surgical instruments, ventilators, and diagnostic systems, must operate within strict current limits to avoid damaging sensitive components, ensure patient safety, and maintain regulatory compliance. MRI machines utilize high-power magnets to create detailed images. Accurate current sensors are required to control the power supplied to these magnets, ensuring image quality and patient safety. Any fluctuations in the current can cause distortions in the magnetic field, affecting image clarity.



# Equipment Validation

Equipment validation ensures industrial equipment meets the required standards of accuracy, reliability, and performance for its intended use. This is critical in industries such as manufacturing, aerospace, medical devices, pharmaceuticals, and energy, where equipment must operate within tight tolerances to produce consistent, high-quality outputs. High precision current sensors are essential during this process ensuring machinery operates within design specifications, detecting potential issues such as overcurrent, short circuits, or inefficient power consumption.



**ITC 2000**



**ITC 4000**



**ITL**



**ITN**



**ITZ**

27kHz	82kHz	50kHz	100kHz - 500kHz	2kHz - 300kHz
70mA	70mA	0.35A	60mA - 130mA	76W - 300W
3000A	6000A	12000A	12.5A - 1000A	2000A - 24000A
24V	24V	24V	15V	100V - 240V
Panel	Panel	Panel	PCB, Panel	Panel
Current	Current	Current	Current	Current
0.05%	0.05%	0.06%	0.00115% - 0.0509%	0.0004% - 0.0008%
Closed Loop Fluxgate	Closed Loop Fluxgate	Closed Loop Fluxgate	Closed Loop Fluxgate	Closed Loop Fluxgate

# Global Support Network



## Locations:

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