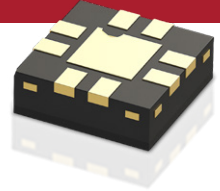


Current sensors for battery & EV applications

Paragraf is the world's first company to use graphene to mass produce electronic devices using standard semiconductor processes.



The latest regulatory requirements in battery safety are driving the need for newer, more advanced current sensors.

Our highly sensitive current sensors allow measurement of the magnetic fields generated by the flow of current, without being part of the circuit. This provides much more accurate current mapping for battery applications.

Applications

- Leakage detection in the μA with high resolution for battery manufacturer's safety testing and compliance
- Cell aging processes, failure mode analysis and recycling of batteries
- In service health monitoring and performance optimisation, prolonging battery life



Features	Benefits
<ul style="list-style-type: none"> • Unrivalled measurement range capability from μA to kA 	<ul style="list-style-type: none"> • Use one sensor; reduce bill of materials
<ul style="list-style-type: none"> • Isolated from current flow 	<ul style="list-style-type: none"> • Additional measurements can be made without disruption to existing set-ups
<ul style="list-style-type: none"> • Capture current flow direction as well as magnitude 	<ul style="list-style-type: none"> • Improved information during current observations
<ul style="list-style-type: none"> • Zero cross talk 	<ul style="list-style-type: none"> • Densely pack sensors for high spatial resolution
<ul style="list-style-type: none"> • Capture instantaneous increases in current density with high resolution and no lag 	<ul style="list-style-type: none"> • Improved measurements critical for regulatory and safety requirements
<ul style="list-style-type: none"> • Two-dimensional graphene Hall element, immune to stray fields in the plane of the sensor 	<ul style="list-style-type: none"> • Implement high resolution and cost effective battery cell-level current sensing in a noisy magnetic environment



Battery cells, modules, packs and their operating environments are magnetically complex – better immunity to stray fields improves quality of data collected and makes analysis simpler.



Contact us:

+44 1223 739782

sales@paragraf.com

www.paragraf.com