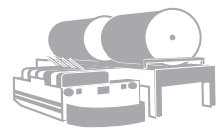
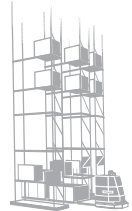
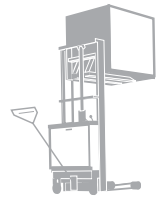




Battery Electronics
Hawker easycontrol



EnerSys

Power/Full Solutions™

Electronic management of your battery...



Hawker easycontrol is a compact electronic device directly mounted to a cell connection which allows diagnostics of Hawker evolution batteries. It measures voltage and temperature and can provide the following data:

- battery identity including age, serial number and battery type
- number of cycles
- total discharge time
- equalisation charges
- total rest time
- record of abnormal operating temperatures



Battery utilisation

Hawker easycontrol has the capability to store and transmit data on your battery's operation and performance. The analysis and interpretation of this data means Hawker can help you get the very best out of your batteries. We can see the power demands being made on each of your batteries and recommend rotation to maximise battery availability and fleet utilisation. We can provide information on the battery charging practices used in your business and share our expertise to make sure you do it well. All this information will enable you to get the optimum performance life from your battery fleet.

Charging profile

Hawker easycontrol complements the advanced technology of Hawker evolution batteries and Hawker HF chargers. Details of the battery temperature are transmitted to the charger and the charge profile is automatically adjusted.

Commissioning

Hawker easycontrol can be programmed to hold additional information for the customer:

- customer's battery identification number
- truck fleet number
- particular location on site

This information will be programmed by your Hawker Technician on his initial site visit.

Flexibility

The memory within **Hawker easycontrol** stores both global and partial data. The global function stores the complete life history for the battery whilst the partial function can be reset by Hawker to give flexibility to our customer. This is particularly useful if a battery is moved to another site or in the case of a rental truck the partial memory can be reset at the start of each rental contract. This allows Hawker and the truck owner to assist the new user in achieving best battery performance and service life.



Communication

Downloading the data stored within **Hawker easycontrol** is quick and straightforward. We simply attach the interface and the data is captured by infra-red signal and stored in a Personal Digital Assistant (PDA). The software we have developed for use in the PDA can store up to 30,000 downloads so we can take even the largest battery fleet in our stride. Data of the last 100 charges can also be viewed using the digital display on our Hawker HF chargers. You can even send battery data directly to Hawker for analysis by plugging into a modem. The data in the PDA is then downloaded to a PC where we carry out full detailed analysis.

Software


Hawker's vast knowledge and experience in battery electro-chemistry has been used to create the unique algorithm used in **Hawker easycontrol**. The software we have developed enables us to carry out extensive diagnostics and understand precisely the demands being made on each battery in your fleet during its working life.



Customer Card			
Hawker Serial N° BR14 Customer Battery N° 037			
Number of cycles:			250
Normal duty application < 80%			220
Number of complete cycles:	180		
Number of incomplete cycles:	40		
Deep Discharge > 80%			30
Number of complete cycles:	12		
Number of incomplete cycles:	18		
	Number	Time	Action
Age		23 months	
Overdischarge	23	8 h	⚠
Temperature excessive	4	17 h	⚠
No respect of equalisations	10		
Recharge required			
Check connections			

Customer Report

It is not our intention to bombard our customers with masses of technical data loaded with battery industry jargon. We want to keep things simple but meaningful. The Customer Report you will see summarises the battery's usage and condition, highlights any areas of concern and makes recommendations to keep your battery in peak performance to achieve a long service life.



Wherever in Europe you do business, Hawker can support you with motive power energy. The Hawker branded battery range, matched chargers and systems provide trouble free performance under the most demanding service conditions.

Our strategically located manufacturing plants are efficient and responsive with a culture of continuous improvement and added value for our business partners.

Hawker has an enviable position in technology leadership and with significant investment in research and development we intend to stay at the leading edge in product innovation. Hawker evolution batteries and Hawker HF chargers, Lifeplus and Powertech have set new standards in maintenance free solutions. Our team of development engineers is driven by the desire to build the best energy solutions and works closely with our customers and suppliers to identify development opportunities. Our bias for rapid innovation means we get new products to market fast.

Hawker's integrated sales and service network across Europe is dedicated to providing our customers with the best solutions and after-sales support for their business. Whether you require 1 battery or a complete fleet of batteries, chargers, a battery handling system and a state of the art fleet management system, you can count on us. As part of EnerSys the world's largest industrial battery manufacturer, we are dedicated to being the best.



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