

v-CHARGE

GSE Battery Monitoring Module

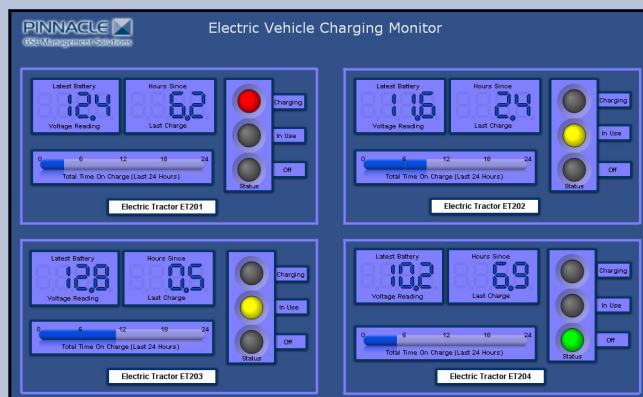
..improve maintenance efficiency.....eliminate dead batteries.....improve equipment utilisation.....reduce costs.....

Maintaining the health of your Electric GSE batteries — with equipment being used in all weathers, and the typical usage profile consisting of many start/stop cycles and short journeys — is a significant challenge. Ensuring they are being charged correctly for the right length of time every day is an even bigger issue. If batteries aren't charged regularly, their lifetime can be reduced by 50% or more, leading to significant replacement costs.

With our **v-CHARGE** battery monitoring module, you can see which batteries have been charged, when and for how long.

Without interfering with battery performance, **v-CHARGE** records exactly when the battery is connected to the charger, and when it is disconnected. Via our **VTIS v-HUB** telematics unit, the resulting data is then transmitted wirelessly to our servers, where it is formatted and made available to our customers.

Data can be viewed on-line via our **v-VIEW** or **v-DASH** reporting systems, or a daily summary can be sent to you via our **v-MAIL** service as an Excel spreadsheet.



When coupled with our **v-CELL** battery voltage monitoring system, you can see the state of your electric GSE at a glance, using our customisable Electric Vehicle Charging Monitor screen.

v-CHARGE can be installed on most electric GSE, depending upon the exact equipment type and wiring configuration. It does not drain the vehicle battery, and requires no ongoing maintenance.

Customer Electric Vehicle Charging Report					
Vehicle Type	Vehicle No.	Date	Charging Start Time	Charging End Time	Total Charging Time (hours)
Tractor (Electr.)	ET202	01 February 2010	11:55:05	18:16:00	6.3
Tractor (Electr.)	ET202	02 February 2010	10:23:52	13:43:24	3.3
Tractor (Electr.)	ET202	03 February 2010	06:17:36	11:30:32	5.2
Tractor (Electr.)	ET202	04 February 2010	04:52:52	05:05:05	0.2
Tractor (Electr.)	ET202	05 February 2010	09:48:46	11:00:19	1.2
Tractor (Electr.)	ET202	06 February 2010	13:37:42	13:48:23	0.2
Tractor (Electr.)	ET202	07 February 2010	07:50:59	09:01:39	1.2
Tractor (Electr.)	ET202	08 February 2010	12:17:26	12:27:43	0.2
Tractor (Electr.)	ET202	09 February 2010	11:30:36	11:40:06	0.2
Tractor (Electr.)	ET202	10 February 2010	16:54:24	22:03:45	5.2
Tractor (Electr.)	ET202	11 February 2010	09:49:43	13:58:29	4.1
Tractor (Electr.)	ET202	12 February 2010	05:53:56	06:02:33	0.1
Tractor (Electr.)	ET202	13 February 2010	07:02:07	11:10:27	4.1
Tractor (Electr.)	ET202	14 February 2010	10:38:07	10:46:14	0.1
				Total	31.7

All vehicle data is hosted on our servers and is protected, secure and available 24/7.

Features

- Suitable for 12V, 24V, 48V and 80V systems
- Available for most electric GSE
- Does not drain battery
- Simple, robust hardware
- Data can be viewed via secure, password-protected web-based reporting systems
- Daily Excel report option also available
- Compatible with **VTIS v-HUB** product range

Benefits

- Improved maintenance efficiency
- Reduce or eliminate "non-starts" due to low battery voltage
- Improved equipment utilisation
- Identify batteries in need of maintenance or replacement
- Reduced costs
- Increased GSE availability
- Increased battery life
- Improved environmental performance
- Reduced maintenance call-outs due to flat batteries

.....identify problem batteries.....reduce maintenance call-outs.....increase availability.....extend battery life.....