

PowerCell

FUEL CELL MODULE FOR REMOTE POWER

A new, clean source of energy!

The ES&S PowerCell is a radical new method of powering remote monitoring equipment. Using methanol fuel cell technology, the PowerCell generates clean energy.

- Renewable energy
- Generates no CO2
- No moving parts
- Low maintenance
- Replacement for solar panels

The PowerCell can be used stand alone or in conjunction with solar panels or other charging systems.

Fuel Cells

Traditionally, remote data collection electronics has been powered with solar panels or batteries. However, the efficiency of solar panels is reduced over time by build up of dust and mud, and are subject to fowling by birds. In addition, a solar panel is easily damaged or stolen by vandals. And of course – solar panels only work in the daytime!

Other power sources, such as windmills only work when the wind blows, and are subject to mechanical wear over time.

Fuel Cells provide a reliable, clean and renewable alternative to all these energy sources.



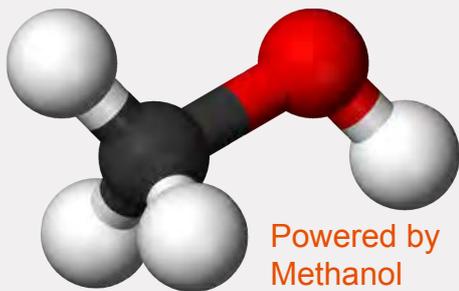
remote monitoring solutions

Fuel cells are a remarkable development. They have been used in high end applications for many years because of their inherent reliability and high efficiency. However it is only recently that they have become available as a replacement for more traditional energy sources, such as batteries and solar panels.

Electrical energy is produced from methanol in an emission free, silent, efficient manner, producing only water as a byproduct.

Methanol is supplied by replaceable canisters. The unique ES&S development allows fuel cells to power data logging equipment over long periods of time, while remotely monitoring fuel levels.

Depending on the application, the fuel cell canisters can last months or even years before the canister needs replacement. All during this time, the fuel cells supplies energy to the remote equipment, silently and without generating any greenhouse gasses.



es&s www.esands.com

**ISO 9001
CERTIFIED**



MASSIVE ENERGY WITHOUT THE MASS!



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8kg vs. 322kg!



+



Logger

=

+



Water Level Sensor



1 litre per kiloWatt hour

