

Advanced power harvesting solution to compliment Technolog Cello M and Pressure Control installations. Taking energy from renewable sources to reduce carbon emissions and reliance on traditional lithium power sources.

Utilising the latest green technologies to optimise power generation the GEM module works in conjunction with the Cello M to power pressure control installations. Allowing for automation in remote locations whilst removing the need for traditional energy storage methods. Designed with longevity and maintainability in mind the requirement for site intervention is greatly reduced.

## Key Features

- Compatible with Autogas, Autogas IP, Newlog 4/ Plus 42 combination. Suitable for new and retrofit installations in combination with Cello M. The GEM module can be utilised as the power source with minimal disruption
- Reduced maintenance visit frequency (3 years)
- GEM accepts inputs from:
  - o Solar panel/film
  - o Wind Turbine
  - o Rotary Turbine
  - o External DC supply
- Zone 0 rated power output (ATEX, UKEX, IECEx)
- IP 65 Rating for particle and moisture ingress
- Operational cost benefit to end user





# Technical Specifications

<b>GEM Input</b>	<b>'Solar' input:</b> <ul style="list-style-type: none"><li>- Solar panel, 12Vdc nominal / 30Vdc max., output current 100mA min.</li><li>- rated power = 5W min., 10W or greater recommended</li></ul> <b>'AUX' input:</b> <ul style="list-style-type: none"><li>- Wind turbine, 16Vdc minimum / 30Vdc max., output current 100mA min.</li><li>- rated power = 5W min., 10W or greater recommended</li></ul> Or External DC supply, 16Vdc minimum / 30Vdc max., output current 100mA min.
<b>GEM Output</b>	<ul style="list-style-type: none"><li>- 3.9v @ 100mA</li><li>- U0 = 6.3v</li></ul>
<b>Internal Battery</b>	<b>Life:</b> Typical battery life 5+ years <ul style="list-style-type: none"><li>- User replaceable on-site</li><li>- 12 Volt sealed Lead-Acid battery</li></ul>
<b>Environmental</b>	<b>Operating ambient temperature:</b> -20°C to +60°C <b>Protection classification:</b> IP65
<b>Intrinsic Safety</b>	<b>Certified Associated Intrinsically Safe equipment:</b> CML 23UKEX2052X; CML 23ATEX2051X; IECEx CML 23.012X Ex II(I)G '[Ex ia Ga]' (Ta = -20°C to +60°C)
<b>Mechanical</b>	<b>Dimensions:</b> 170mm (W) x 289mm (L) x 96mm (H). <b>Weight:</b> 3.2kg (with no input cables but with output cable)

## Connections Overview

