GEM (Green Energy Module)

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Advanced power harvesting solution for Technolog Cello M & Pressure Control systems. Uses renewables to cut carbon emissions and reduce reliance on lithium power.

Utilising advanced green technologies, the GEM module works with the Cello M to power pressure control installations. It enables remote automation and eliminates traditional energy storage needs. Designed for longevity and easy maintenance, it minimises site intervention.

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

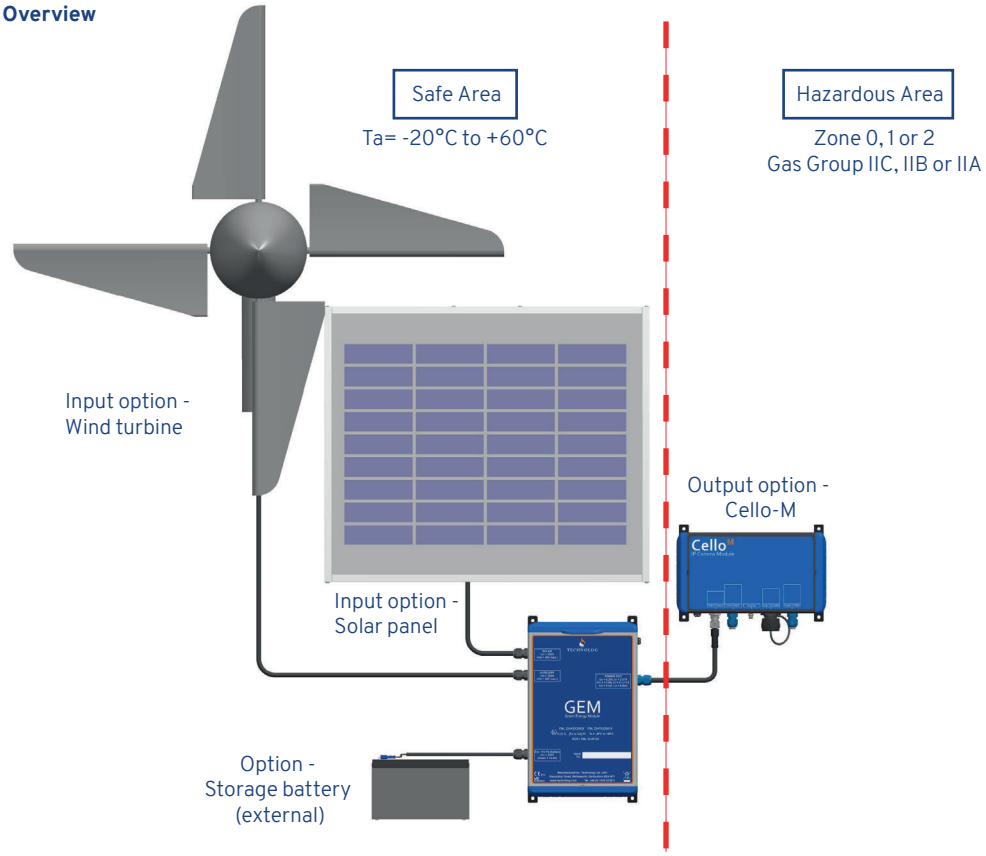


Technical Specifications

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GEM Input	**'Solar' input:** – Solar panel, 12Vdc nominal / 30Vdc max., output current 100mA min. – rated power = 5W min., 10W or greater recommended **'AUX' input:** – Wind turbine, 16Vdc minimum / 30Vdc max., output current 100mA min. – rated power = 5W min., 10W or greater recommended Or External DC supply, 16Vdc minimum / 30Vdc max., output current 100mA min.
GEM Output	– 3.9v @ 100mA – U0 = 6.3v
Internal Battery	**Life:** Typical battery life 5+ years – User replaceable on-site – 12 Volt sealed Lead-Acid battery
Environmental	**Operating ambient temperature:** -20°C to +60°C **Protection classification:** IP65
Intrinsic Safety	**Certified Associated Intrinsically Safe equipment:** CML 23UKEX2052X; CML 23ATEX2051X; IECEx CML 23.012X Ex II(1)G '[Ex ia Ga] (Ta =-20°C to +60°C)
Mechanical	**Dimensions:** 170mm (W) x 289mm (L) x 96mm (H). **Weight:** 3.2kg (with no input cables but with output cable)

Connections Overview



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