

NEW ENERDAY



Remote 400 – Fuel Cell Power Generator

PRODUCT

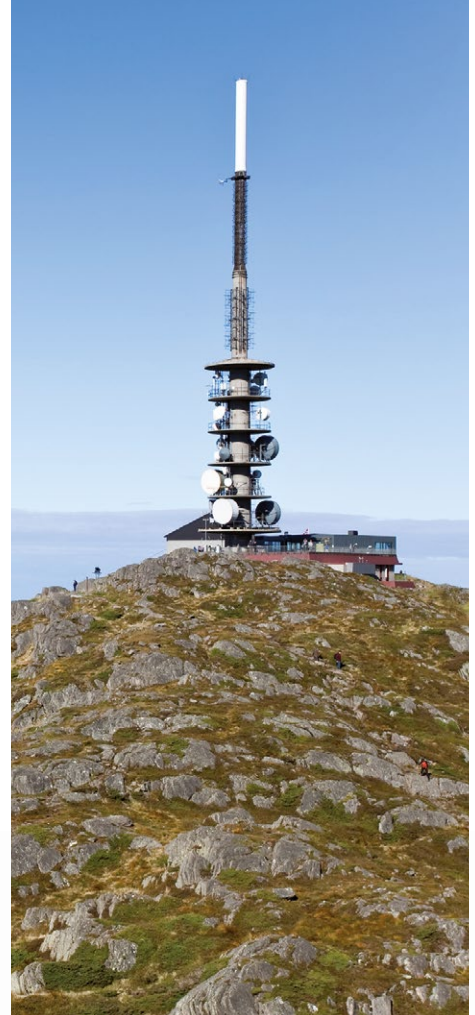
Remote 400 provides off-grid power to stationary or semi-mobile applications. An integrated IP interface for telemonitoring and long maintenance intervals enable unattended operation for more than a year. This makes Remote 400 ideal for use in secluded areas. Reliably, the compact unit operates at a temperature range from -20 to +55 °C / -4 to 131 °F (-40 °C / -40 °F optionally).

APPLICATIONS

- + OIL & GAS: SCADA and communication systems, cathodic corrosion protection, remote-controlled gate valves at pipelines, etc.
- + SECURITY & SAFETY: Video surveillance systems, access control, traffic control, etc.
- + TELECOMMUNICATIONS: microwave radio repeater stations, private LTE / 5G tower, back-up power in extreme weather areas, etc.
- + FURTHER APPLICATIONS: Environmental monitoring, meteorology technology, drones, etc.

SELECTED PROJECTS

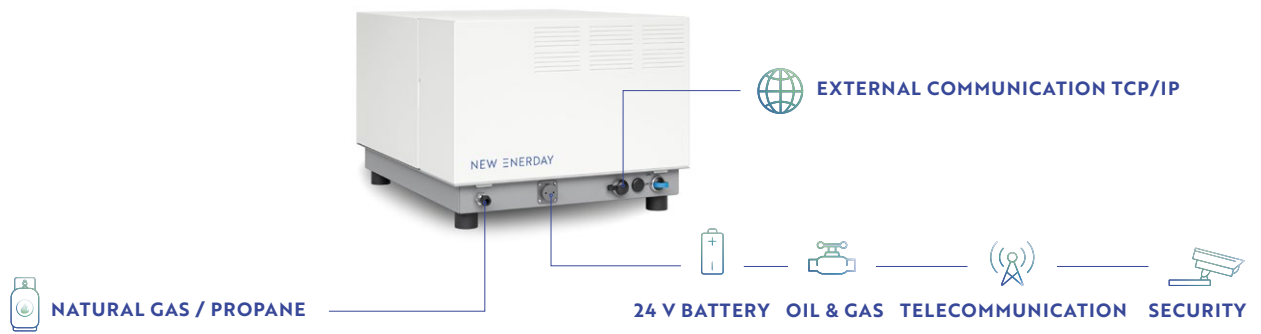
- + Germany, Deutsche Bahn AG: In various locations, Remote 400 powers traffic lights and barriers at level crossings during wintertime.
- + USA, leading telecom network operator: Combined with photovoltaic systems, Remote 400 ensures the operation of several microwave radio stations in Alaska.
- + Tibet, Furtenbach Adventures GmbH: For an whole season, Remote 400 provided energy at the base camp on Mount Everest. For this purpose, two units were adapted to the high altitude.



CORE ADVANTAGES

- + AUTONOMOUS
Low maintenance enables unattended operation > 1 year
- + DURABLE
3x longer product life cycle than comparable off-grid fuel cell generators
- + ROBUST
Reliable primary power supply even under harsh conditions
- + EASY
Simple installation and operation
- + CLEAN
Environmentally friendly thanks to low emissions and low noise





Remote 400 LPG/NG – Technical Data

Fuel	Propane (LPG) / Natural Gas (NG)
Electrical power	60 ... 350 W +- 10%
Max. daily electrical output	8,4 kWh/day
Rated voltage Battery voltage	21 V = undervoltage limit ... 27.5 V shutdown / up to 30 V on request
Fuel consumption	Propane: 75 ... 106 g/h / (0.17 ... 0.23 lbs/h) Natural gas: 0.094 ... 0.136 Nm ³ /h / (3.32 ... 4.80 standard ft ³ /h)
number of cold start cycles	50 cycles guaranteed / typical >100 cycles
operational altitude	Standard up to 1.500 meter / 5,000 ft, maximum 3.000 meter / 10,000 ft with 15% power reduction
unsupervised operation	up to 10,000 opHrs
lifetime core system typical	>15,000 opHrs (continuous operation, low on-off cycles)
Gas connection	8 mm / 0.039 inches compression fitting
Pressure of gas connection	20 ... 50 mbar / 0.29 ... 0.73 psi
Weight	50 kg / 110 lbs
Dimensions	565 x 465 x 365 mm / 22.2 x 18.3 x 14.4 inches
Ambient temperature for operation	-20 ... +55 °C / -4 ... +131 °F (-40 °C / -40 °F optionally)
Noise emission (without enclosure)	< 49 dB (A) at power mode and < 55 dB (A) during heat-up, in 7 m / 23 ft distance
Thermal output	None
Water / lubricant consumption	None
IP protection category	IP50
Communication	Ethernet TCP / IP (Web based GUI / REST-API)
Essential accessories for operation	Battery VRLA 24 V, > 300 Ah, low pressure regulator, gas line and gas hose
Other products / applications	POWERBOX 10,000 hybrid systems with photovoltaic, battery bank and 10 kVA peak power at 230/400 V AC PowerCabinet 600 (skid wired and ready): outdoor cabinet to supply already existing systems with 600 W / 24V DC peak power – e.g.: SCADA
Qualifications	CE certification for Europe; NRTL certification for North America; ISO 9001:2015 production facilities and quality management system