SolarPak

Honeywell

RAE Systems by Honeywell
Solar Charger for RAE PowerPak

SolarPak

Solar Charger for RAE PowerPak

Key Features

- Class 1, Division 1 (ATEX Zone 0) intrinsically safe remote power solution
- Uses the sun's energy to charge the RAE PowerPak external battery
- Compatible with all RAE Systems by Honeywell MeshGuard wireless gas detectors and Mesh Routers
- Standard pole and wall mount adjusts easily to maximise energy production at different geographic locations
- Stainless-steel construction designed for harsh, outdoor environments

Applications

- Oil and gas exploration
- Oil and gas production
- Plant maintenance turnarounds
- Tank farms
- Facility fenceline monitoring

The SolarPak is an intrinsically safe way to extend the operating time of the RAE PowerPak.

The SolarPak is certified for class I, division 1 (ATEX Zone 0) hazardous locations. An integrated solar panel and charge controller harness the sun's energy to charge the RAE PowerPak. Sensors, such as the industry-standard LEL catalytic bead, have significant power requirements that now can be met 24/7 with the RAE Systems SolarPak.

The RAE Systems MeshGuard gas detection system is a batteryoperated, rapidly deployable, hazardous-area monitoring system that uses wireless mesh radio technology to create a self-forming, self-healing mesh network. A complete MeshGuard gas detection system can be deployed in minutes and operate in remote locations indefinitely with the use of a RAE PowerPak and SolarPak.

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Solar Charger for RAE PowerPak
Specifications

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Physical Parameters	
Size	65 x 33.5 x 4 cm (25.6" L x 13.2" W x 1.6" H)
Weight	Panel only: 4.6 kg (10.14 lbs) Panel + adjustable pole mount: 7.6 kg (16.75 lbs)
Basic Parameters	
Cable Length	5m (16')
Maximum Voltage	(full sun) 9.60V
Maximum Current	(full sun) 700mA
IP-Rating	IP-65
Electrical Data	Pin 1: Uo: 9.96V, Io: 3.23A, Po: 9.03 W, Co: 3µF, Lo 3.2µH Pin 2: Uo: 9.56V, Io: 23mA, Po: 12mW, Co: 3µF, Lo 66µH
Certifications	
Certification Markings	US and Canada: Class I, Division 1, Groups A, B, C, D T4 Europe: ATEX II 1 G Ex ia IIC T4 Ga -40 °C ≤ Ta ≤ +60 °C IECEx: Ex ia IIC T4 Ga -40 °C ≤ Ta ≤ +60 °C

*Specifications are subject to change

Run-time examples

Country	City	Average Summer Run-time days	Average Winter Run-time days
Brazil	Sao Paulo	Indefinite	Indefinite
Canada	Calgary	Indefinite	35.6
China	Beijing	Indefinite	142.3
England	London	Indefinite	28.6
France	Paris	Indefinite	31.7
Germany	Munich	Indefinite	35.2
Russia	Moscow	Indefinite	28.5
United Arab Emirates	Dubai	Indefinite	Indefinite
United States	Denver, CO	Indefinite	140.4
United States	Fargo, ND	Indefinite	48.3
United States	Houston, TX	Indefinite	Indefinite
United States	Pittsburgh, PA	Indefinite	51.3

1. Average run times are calculated using historic 30-year averages for solar radiation levels. Individual years may vary due to yearly variations in weather and temperature.
2. All run times assume an average summer temperature of 20° C (68° F), and an average winter temperature of 0° C (32° F).
3. All run times assume an optimized tilt angle and orientation for the SolarPak as described in the manual.
4. Additional cities are listed in the manual, as well as instructions for calculating expected runtimes for any location.

Source: NASA Langley Research Center Atmospheric Science Data Center; New et al. 2002

Ordering Information

SolarPak Includes:

- Solar Panel with the pole/wall mounting assembly
- 5 m (16') extension cable

ISO 9001 CERTIFIED ATEX c SP us IECEx

Honeywell Gas Detection

Honeywell is able to provide gas detection solutions to meet the requirements of all applications and industries. Contact Honeywell in the following ways.

Fixed Gas Detection

www.honeywellanalytics.com

Europe, Middle East, Africa, India
Life Safety Distribution AG
Javastrasse 2
8604 Hegnau
Switzerland
Tel: +41 (0) 44 943 4300
Fax: +41 (0) 44 943 4398
India Tel: +91 124 4752700
gasdetection@honeywell.com

Americas
Honeywell Analytics Distribution Inc.
405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
Fax: +1 847 955 8210
detectgas@honeywell.com

Asia Pacific
Honeywell Analytics
Asia Pacific
#701 Kolon Science Valley (1)
43 Digital-Ro 34-Gil, Guro-Gu
Seoul 152-729
Korea
Tel: +82 (0) 2 6909 0300
Fax: +82 (0) 2 2025 0388
analytics.ap@honeywell.com

Technical Services
EMEAI: HAexpert@honeywell.com
US: ha.us.service@honeywell.com
AP: ha.ap.service@honeywell.com

Portable Gas Detection

www.honeywellanalytics.com
www.raesystems.com

European Headquarters Europe, Middle East, Africa, India
Life Safety Distribution AG
Javastrasse 2
8604 Hegnau
Switzerland
Tel: +41 (0) 44 943 4300
Fax: +41 (0) 44 943 4398
India Tel: +91 124 4752700
gasdetection@honeywell.com

Europe South/East, Africa
(French speaking countries)
BW Technologies by Honeywell France
ZAC Athélia 4 - 375 avenue du Mistral,
Bât B, Espace Mistral
13600 La Ciotat, France
Tel: +33 (0) 4 42 98 17 70
Fax: +33 (0) 4 42 71 97 05
PortablesFR@honeywell.com

Middle East, CIS, Africa
(English speaking countries)
BW Technologies by Honeywell
Emaar Business Park
Building No.2, 2nd floor,
Office 201
PO. Box 232362
Dubai, United Arab Emirates
Tel: +971 4 450 5852
Fax: +971 4 450 5910
PortablesUAE@honeywell.com

Technical Services
BWexpert@honeywell.com
HAexpert@honeywell.com
BIOexpert@honeywell.com

United Kingdom, Ireland, Netherlands and West Nordics
4 Stinsford Road
Nuffield Industrial Estate
Poole, Dorset, BH17 0RZ
United Kingdom
Tel: +44 (0) 1295 700 300
Fax: +44 (0) 1295 700 301
Email: portablesUK@honeywell.com

Europe Central, Belgium, Luxembourg and East Nordics
BW Technologies GmbH
Elsenheimerstrasse 43
80687 München, Germany
Tel: +49 (0) 89 791 9217
Fax: +49 (0) 89 9218 5721
PortablesDE@honeywell.com

Honeywell Analytics
Experts in Gas Detection

BW Technologies by Honeywell

RAE SYSTEMS by Honeywell

We Save Lives

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