

RotaBolt®

Connect

Measure, record and transmit

RotaBolt® Connect is the latest iteration of the RotaBolt load sensing bolt. A precision sensor determines the exact load on the fastener and with Connect, this information can be viewed remotely, providing an accurate picture of the condition of the fastener and bolted joint at any moment in time.

An integral Bluetooth® module allows the Connect fastener to record loads and transmit them wirelessly for later viewing, through a simple dashboard.

Prime features

- The RotaBolt Connect can be connected to a phone to allow for easy installation of the fastener. Simply tighten until the phone app shows the desired load.
- After installation, the fastener is automatically set up to periodically upload data to a nearby hub. Each hub is capable of collecting the data from multiple nearby Connect fasteners and uploading the information to a simple to use dashboard.
- The user can control how often a sample is taken and how often samples are uploaded to the hub. The data can be viewed via the internet from anywhere in the world.

Certification

- Bluetooth SIG.
- Complies with the Radio Equipment Directive 2014/53/EU Article 3.1(b) and 3.2.
- CE-marked (EMC, ESD and Safety Testing).
- RoHS compliant.
- Full list of EMC standards and levels tested to available upon request.

Sampling and upload rates

- Maximum one sample every 5 seconds.*
- Maximum one upload to the hub every minute.*
- Both sampling and upload rate can be changed in each RotaBolt Connect fastener remotely via the online dashboard.

* Sampling and upload rate are user configurable.

How supplied

- Fastener with integrated precision load measuring device, Bluetooth transmitter and power source.
- Hub for connection with multiple fasteners.
- Phone app.



OPERATING CONDITIONS

Maximum Operating Temperature:

+85°C (+185°F)

Consult James Walker if higher temperatures are required.

Minimum Operating Temperature:

-40°C (-40°F)

ACCURACY AND RESOLUTION

Accuracy:

±0.5% of full scale

Load Resolution:

0.1 Tonnes

MINIMUM SIZES

Hex Head Bolt:

M24 (7/8")

Stud:

M33 (1 1/8")

DEVICE SPECIFICATION

RBC Power Supply:

Non-rechargeable
CR2477, 1000mAh

Hub Power Supply:

5v DC

Protection Class - Bolt:

IP67

Protection Class - Hub:

IP65

Phone Compatibility:

Android

WIRELESS COMMUNICATION AND USER INTERFACE

On-site activation:

Triggered by magnet

Bluetooth Version:

Bluetooth 5.0 LE

Range to Hub:

Up to 30 m (99 ft)

Range to Phone:

Up to 10 m (33 ft)

Phone App:

Download upon purchase

James Walker Worldwide

Australia

T: +61 2 9721 9500
E: sales.jwau@jameswalker.biz

Belgium

T: +32 3 820 79 00
E: sales.be@jameswalker.biz

Brazil

T: +55 11 4392 7360
E: sales.br@jameswalker.biz

China

T: +86 21 6876 9351
E: sales.cn@jameswalker.biz

France

T: +33 437 49 74 80
E: sales.fr@jameswalker.biz

Germany

T: +49 4038 60810
E: sales.de@jameswalker.biz

India

T: +91 224 0808080
E: sales.in@jameswalker.biz

Ireland

T: +353 214 323626
E: sales.ie@jameswalker.biz

Italy

T: +39 2 2578308
E: sales.it@jameswalker.biz

Middle East

T: +971 481 78888
E: sales.jwme@jameswalker.biz

Netherlands

T: +31 186 633111
E: sales.nl@jameswalker.biz

New Zealand

T: +64 9 272 1599
E: sales.nz@jameswalker.biz

Norway

T: +47 22 75 75 00
E: sales.no@jameswalker.biz

Singapore

T: +65 6715 6300
E: sales.sg@jameswalker.biz

South Africa

T: +27 31 304 0770
E: sales.za@jameswalker.biz

Spain & Portugal

T: +34 94 447 00 99
E: sales.es@jameswalker.biz

UK

T: +44 1270 536000
E: sales.uk@jameswalker.biz

USA

T: +1 708 754 4020
E: sales.jwna.us@jameswalker.biz

Information given in this publication is given in good faith and represents the results of specific individual tests carried out by James Walker or third parties in accordance with the methodologies described in this publication, performed in a laboratory. No representation or warranty is given in relation to such information. Values and/or operating limits given in this publication are not an indication that these values and/or operating limits can be applied simultaneously. While such results may comprise useful additional information and are industry standard tests, they are no substitute for conducting (or procuring from James Walker) your own tests and engineering analysis and satisfying yourself as to the suitability of the product you select. Please also note that a product tested in accordance with the published methodology may not perform to such values in application and/or under different test conditions or methodologies for a variety of reasons, including but not limited to the environment in which it is used/tested or which passes through it or otherwise affects the product, or due to the handling, storage or installation, or due to the effect of housing or other parts. Our personnel will be happy to discuss any historical examples we have of a product having been previously used in a particular application.

To ensure you are working with the very latest product specifications, please consult the relevant section of the James Walker website: www.jameswalker.biz.

James Walker Sealing Products & Services Ltd

Registered Office: Lion House, Oriental Road,
Woking, Surrey GU22 8AP, United Kingdom.

Reg no: 00264191 England