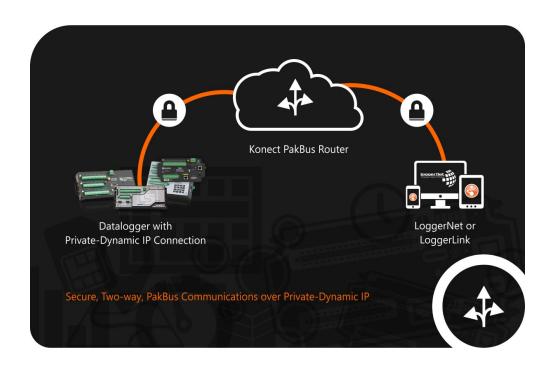
Getting Started Guide



Complimentary Konect PakBus® Router

PakBus Routing Service









Guarantee

This equipment is guaranteed against defects in materials and workmanship. We will repair or replace products which prove to be defective during the guarantee period as detailed on your invoice, provided they are returned to us prepaid. The guarantee will not apply to:

- Equipment which has been modified or altered in any way without the written permission of Campbell Scientific
- Batteries
- Any product which has been subjected to misuse, neglect, acts of God or damage in transit.

Campbell Scientific will return guaranteed equipment by surface carrier prepaid. Campbell Scientific will not reimburse the claimant for costs incurred in removing and/or reinstalling equipment. This guarantee and the Company's obligation thereunder is in lieu of all other guarantees, expressed or implied, including those of suitability and fitness for a particular purpose. Campbell Scientific is not liable for consequential damage.

Please inform us before returning equipment and obtain a Repair Reference Number whether the repair is under guarantee or not. Please state the faults as clearly as possible, and if the product is out of the guarantee period it should be accompanied by a purchase order. Quotations for repairs can be given on request. It is the policy of Campbell Scientific to protect the health of its employees and provide a safe working environment, in support of this policy a "Declaration of Hazardous Material and Decontamination" form will be issued for completion.

When returning equipment, the Repair Reference Number must be clearly marked on the outside of the package. Complete the "Declaration of Hazardous Material and Decontamination" form and ensure a completed copy is returned with your goods. Please note your Repair may not be processed if you do not include a copy of this form and Campbell Scientific Ltd reserves the right to return goods at the customers' expense.

Note that goods sent air freight are subject to Customs clearance fees which Campbell Scientific will charge to customers. In many cases, these charges are greater than the cost of the repair.



Campbell Scientific Ltd, 80 Hathern Road, Shepshed, Loughborough, LE12 9GX, UK Tel: +44 (0) 1509 601141 Fax: +44 (0) 1509 270924

Email: support@campbellsci.co.uk www.campbellsci.co.uk

Table of contents

| 1. Introduction | 1 |
|---|----|
| 2. Get started | 1 |
| 3. Set up Konect PakBus Router | 2 |
| 4. Configure data logger | 4 |
| 4.1 Data loggers connected to CELL200-series modules | 5 |
| 4.2 Data loggers with internal cellular modules (CR300-CELL200) | 7 |
| 4.3 Data loggers connected to RV50 modems | 8 |
| 5. Set up LoggerNet | 10 |
| 6. Set up LoggerLink (optional) | 14 |
| 7. Maintenance and troubleshooting | 14 |
| 7.1 Review | 14 |
| 7.2 Status | 15 |

1. Introduction

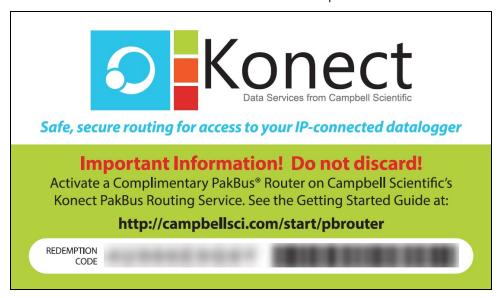
Take advantage of the secure Konect PakBus[®] Router for on-demand two-way access to your data logger. The Konect PakBus router is a cloud-based service that acts as a bridge between an internet-enabled data logger and LoggerNet or LoggerLink data logger support software.

This guide will walk you through the steps to:

- 1. Set up the Konect PakBus Router.
- 2. Configure a data logger.
- 3. Set up LoggerNet.

2. Get started

You will need the Konect PakBus Router redemption code that came on a card with the CR1000X.



Open a web browser and go to www.konectgds.eu.

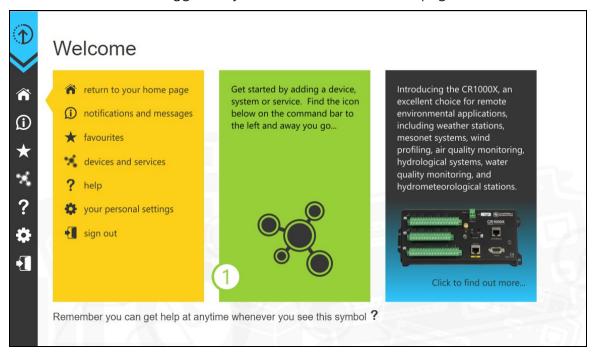
First-time users need to create a **free account**. After you submit your information, you will receive two emails up to five minutes apart. One email will contain a Passport ID and the other your Password. If emails are not received, check your email junk folder.

¹PakBus is a registered trademark of Campbell Scientific, Inc.

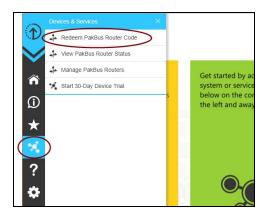


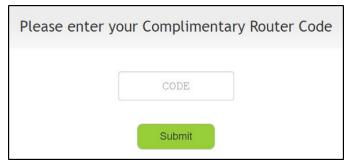
3. Set up Konect PakBus Router

1. Sign in to www.konectgds.eu using your Passport ID and Password found in the two received emails. Once logged in, you will be at the Welcome page.



2. Click **Devices and services** on the command bar to the left and select **Redeem PakBus Router Code**. Enter your complimentary Router Code found on the included card with your cellular-enabled device and click **Submit**.

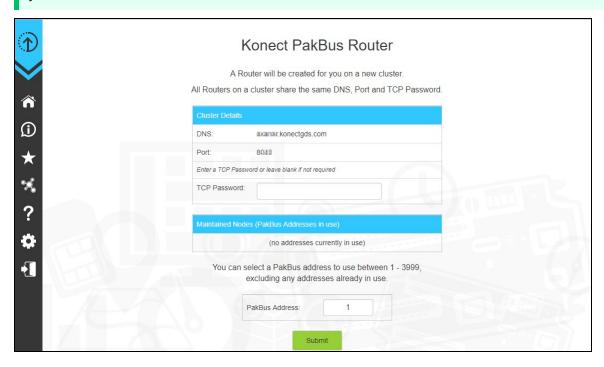




3. The next screen shows the assigned **DNS** address and **Port** for the router. Enter a **TCP Password** and select a unique **PakBus Address** for your data logger.

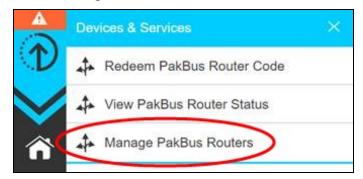
TIP:

Make note of this information; it will be required for data logger configuration as well as LoggerNet setup. Please note your DNS, Port, TCP Password and PakBus address; you will need them later.



4. Click Submit.

5. To edit settings at a later date, click **devices and services** on the command bar and select **Manage PakBus Routers**.



NOTE:

The **DNS** address and **Port** number, assigned when your account was setup, cannot be edited.

4. Configure data logger

The data logger setup depends on the type of cellular hardware you are using. Follow the instructions in the section that applies to your hardware configuration.

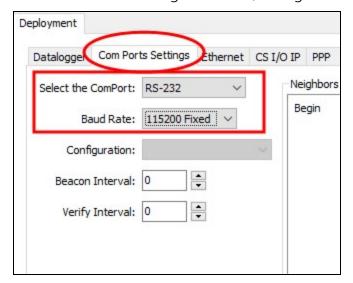
- 1. Data logger connected to a CELL200-series module
- 2. Data logger with an internal cellular module
- 3. Data logger connected to an RV50 modem

4.1 Data loggers connected to CELL200-series modules

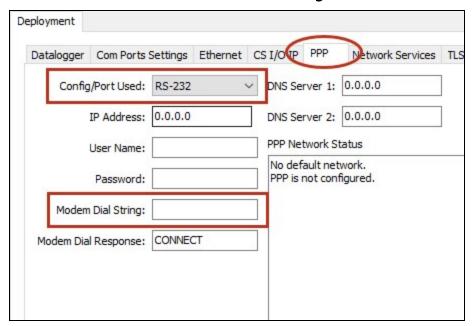
1. Launch the Device Configuration Utility . All tabs are within the **Deployment** category. On the **Datalogger** tab, change the data logger **PakBus Address** and **PakBus/TCP Password** to match the values entered in the Set up Konect PakBus Router (p. 2) step.



2. On the **Com Ports Settings** tab, select the **COMPort** where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the **Baud Rate** to **115200 Fixed**.



3. On the **PPP** tab select the **Config/Port Used** where the modem is connected. This is the same as was selected on the **Com Ports Settings** tab. Leave the **Modem Dial String** blank.



4. On the **Network Services** tab, in the **PakBus/TCP Clients** box, type the DNS address and Port number noted during the Set up Konect PakBus Router (p. 2) step.



5. **Apply** to save your changes.

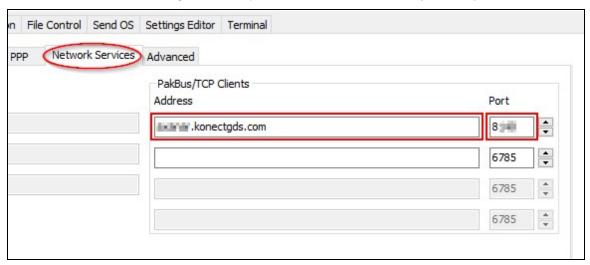
4.2 Data loggers with internal cellular modules (CR300-CELL200)

1. Launch the Device Configuration Utility . All tabs are within the **Deployment** category.

On the **Datalogger** tab, change the data logger **PakBus Address** and **PakBus/TCP Password** to match the values entered in the Set up Konect PakBus Router (p. 2) step.



2. On the **Network Services** tab, in the **PakBus/TCP Clients** box, type the DNS address and Port number noted during the Set up Konect PakBus Router (p. 2) step.



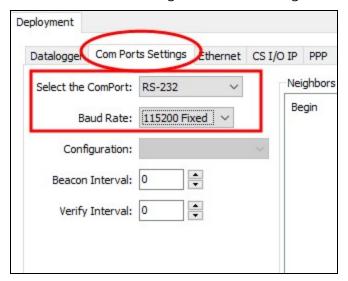
3. **Apply** to save your changes.

4.3 Data loggers connected to RV50 modems

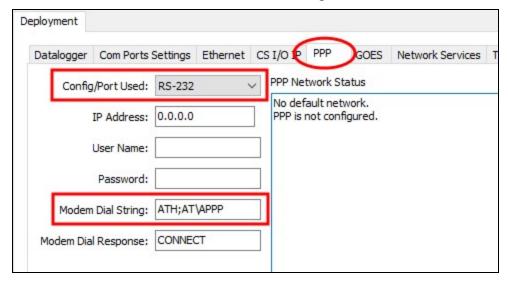
1. Launch the Device Configuration Utility All tabs are within the **Deployment** category. On the **Datalogger** tab, change the data logger **PakBus Address** and **PakBus/TCP Password** to match the values entered in the Set up Konect PakBus Router (p. 2) step.



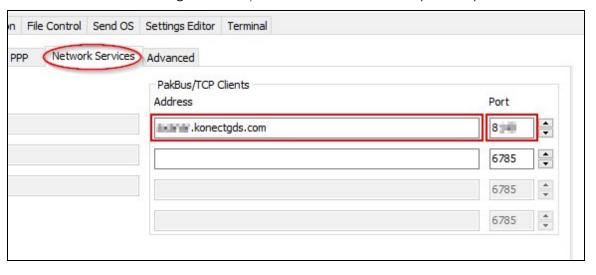
2. On the **Com Ports Settings** tab, select the **COMPort** where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the **Baud Rate** to **115200 Fixed**.



3. On the **PPP** tab select the **Config/Port Used** where the modem is connected. This is the same as was selected on the **Com Ports Settings** tab. Set **Modem Dial String** to AT\APPP.



4. On the **Network Services** tab, in the **PakBus/TCP Clients** box, type the DNS address and Port number noted during the Set up Konect PakBus Router (p. 2) step.



5. **Apply** to save your changes.

5. Set up LoggerNet

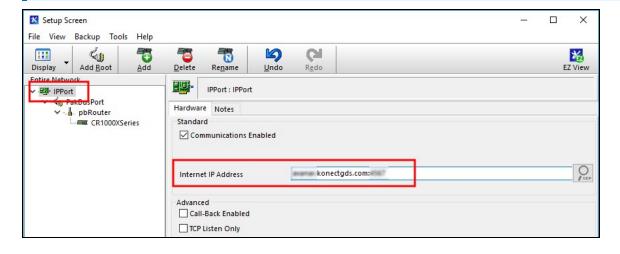
1. In the Standard View of LoggerNet Setup

✓, add an IPPort > PakBusPort > pbRouter, and data logger.

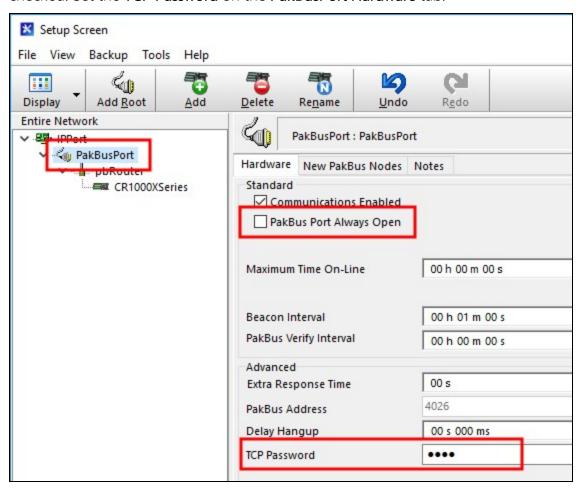


2. On the **IPPort Hardware** tab, select the **Internet IP Address** field. Enter the Konect PakBus Router DNS address and Port number separated by a colon as noted during the Set up Konect PakBus Router (p. 2).

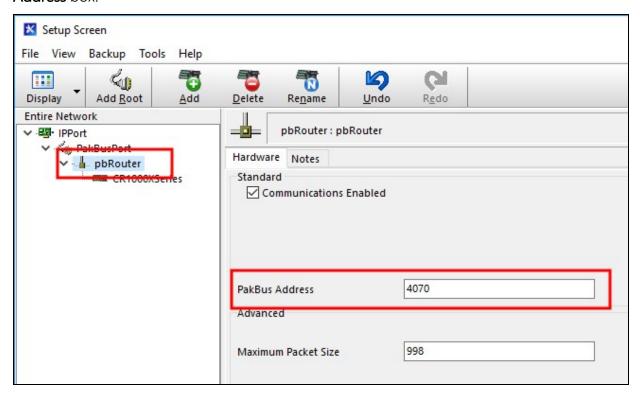
NOTE: Address format: dddd.konectgds.eu:pppp



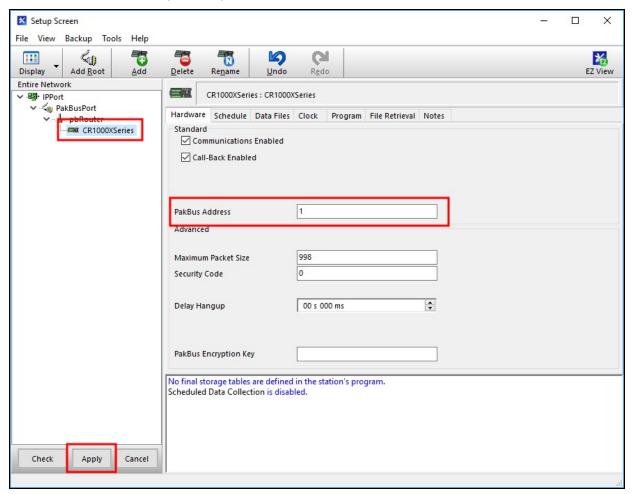
3. Leave the default settings for the PakBusPort. PakBus Port Always Open; it should not be checked. Set the TCP Password on the PakBusPort Hardware tab.



4. Select pbRouter from the Entire Network. On the Hardware tab, enter 4070 in the PakBus Address box.



5. On the data logger Hardware tab, enter the PakBus Address chosen during the Set up Konect PakBus Router (p. 2) step.



- 6. **Apply** to save your changes.
- 7. Apply power to the data logger and cellular module. On the Clock tab, Check Clocks. When communications are successful, the Station Date/Time field will update.

6. Set up LoggerLink (optional)

LoggerLink mobile apps are another way to connect to your data logger through the Konect PakBus Router. When using LoggerLink the **PakBus Neighbour** setting must be set to **4070**.



See the help in LoggerLink or https://www.campbellsci.eu/loggerlink for more information. Or, watch a video about using LoggerLink https://www.campbellsci.eu/videos/loggerlink-software-an-introduction.

7. Maintenance and troubleshooting

7.1 Review

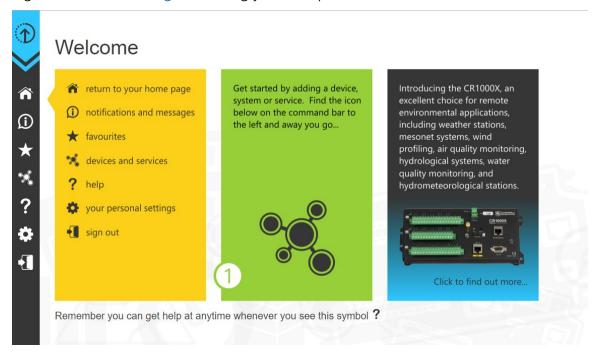
- 1. You have created a free KonectGDS account. In this account, a complimentary Konect PakBus Router Code was redeemed and a router set up.
- 2. The data logger was configured to use the information received during the Konect PakBus Router setup. The data logger now maintains a connection with the Konect PakBus Router.

3. LoggerNet has been configured with information received during the Konect PakBus Router setup. LoggerNet can now connect through the Konect PakBus Router to the data logger.

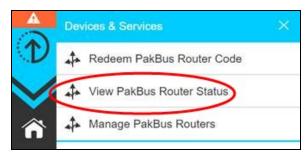
7.2 Status

Check the connection status between the data logger and Konect PakBus Router.

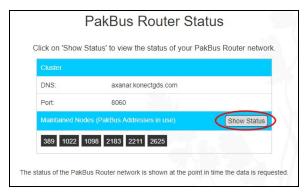
1. Sign in to www.konectgds.eu using your Passport ID and Password.



2. Click devices and services on the command bar and select View PakBus Router Status.



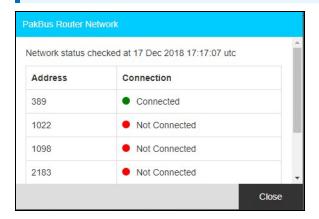
3. The next screen shows the DNS, Port, and assigned PakBus addresses. Click Show Status.



4. A **Connected** status indicates that the data logger has successfully established a connection to the Konect PakBus Router.

NOTE:

This does not indicate the communication status with LoggerNet.



- 5. To troubleshoot a **Not Connected** status:
 - Verify the data logger and module have adequate power.
 - Verify the module is connected to the Internet.
 - Verify settings in the data logger are as described in Configure data logger (p. 4).





Global Sales & Support Network

A worldwide network to help meet your needs



Campbell Scientific regional offices

Australia

Location: Garbutt, QLD Australia Phone: 61.7.4401.7700

Email: info@campbellsci.com.au

Website: www.campbellsci.com.au

Brazil

Location: São Paulo, SP Brazil Phone: 11.3732.3399

Email: vendas@campbellsci.com.br Website: www.campbellsci.com.br

Canada

Location: Edmonton, AB Canada

Phone: 780.454.2505

Email: dataloggers@campbellsci.ca

Website: www.campbellsci.ca

China

Location: Beijing, P. R. China Phone: 86.10.6561.0080

Email: info@campbellsci.com.cn Website: www.campbellsci.com.cn

Costa Rica

Location: San Pedro, Costa Rica Phone: 506.2280.1564 Email: info@campbellsci.cc Website: www.campbellsci.cc

France

Location: Vincennes, France
Phone: 0033.0.1.56.45.15.20
Email: info@campbellsci.fr
Website: www.campbellsci.fr

Germany

Location:Bremen, GermanyPhone:49.0.421.460974.0Email:info@campbellsci.deWebsite:www.campbellsci.de

India

Location: New Delhi, DL India Phone: 91.11.46500481.482 Email: info@campbellsci.in Website: www.campbellsci.in

South Africa

Location: Stellenbosch, South Africa

Phone: 27.21.8809960

Email: sales@campbellsci.co.za
Website: www.campbellsci.co.za

Spain

Location: Barcelona, Spain
Phone: 34.93.2323938
Email: info@campbellsci.es
Website: www.campbellsci.es

Thailand

Location: Bangkok, Thailand Phone: 66.2.719.3399

Email: info@campbellsci.asia Website: www.campbellsci.asia

UK

Location: Shepshed, Loughborough,

Phone: UK

Email: 44.0.1509.601141

Website: sales@campbellsci.co.uk

www.campbellsci.co.uk

USA

Location: Logan, UT USA Phone: 435.227.9120

Email: info@campbellsci.com Website: www.campbellsci.com