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CAMPBELL SCIENTIFIC TRAINING COURSES

DATALOGGER COMMUNICATIONS
COURSE.



Learn how to connect your Campbell Datalogger to a communications network. The course covers cell phone modems, ethernet networks and spread spectrum radios, how to connect them to the datalogger and how to program for these devices to provide information over services such as email and FTP.

The two-day communications course is designed for experienced users of Campbell dataloggers wanting to learn how to program for, and connect their dataloggers to, various communication networks via a number of different methods.

There are some advanced programming techniques used on the course so ideally you will have either previous experience of programming Campbell dataloggers or attended the two-day Datalogger Programming in CRBasic course and had time to practice the concepts learned (Discounts are available for both courses booked together).

Course Overview

Overview of Communication

Overview of LoggerNet

Wired Communications

- RS232
- RS485
- MD485

Wireless Communications

- Radio
- Wi-Fi
- Cellular Modems (CELL215)

LoggerNet and network planner

Review of Internet Protocol (IP) communications

- Ethernet
- Wi-Fi
- IP networks
- Theory of datalogger IP communications
- MQTT
- HTTP

Overview of Satellite Communications

- Overview of hardware

Detailed look at cellular communications

- PPP connections
- Connecting to a network using a modem
- Controlling network connection times
- Static versus Dynamic IP Addresses

Konect Services

- KonectGDS
- Konect Pakbus Router

Example exercises

- Pakbus networks
- FTP
- Email (using Email/Relay only)
- MQTT
- HTTP

Important Information

- Course commences 9am each morning and finishes at 5pm, there is ample parking on site.
- Lunch and training materials are provided. Please advise of any special dietary requirements before the course.
- Accommodation and travel is not included but we can provide local recommendations.
- All courses are taught using the latest version of LoggerNet software, all equipment is provided.
- All fees must be paid in full prior to the course by either credit card or invoice. Full refunds are given up to 2 weeks before the course, cancellations after this time attract a 20% charge. No refund is given for cancellations 24 hours prior to commencement.
- Participant substitutes are welcome at any time prior to commencement of the course. No substitutes welcome after the course has begun.

WHAT PEOPLE HAVE TO SAY:

I learnt lots about methods of communication that I wasn't expecting. The trainer was very knowledgeable and had a clear and approachable teaching method. Great.

The training room and facilities provided were excellent. The trainer was a first-class specialist for sure.



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As a trusted provider of measurement solutions since 1974, Campbell Scientific has delivered the information that helps mitigate severe weather casualties; aids scientists in gathering data to assist in the understanding of climate change and other human-made environmental impacts; and supports countless organizations, institutions, and national agencies in providing more efficient services to their people. Our instrumentation hardware is known to be the best in the business. Our software services provide an unrivaled level of insight. Our project delivery expertise combines both to deliver a unique end-to-end solution capable of changing the world.



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