Campbell Scientific Training Courses

Data Logger Communications Course

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Learn how to connect your Campbell Scientific data logger to a communications network. This training course covers cell phone modems, Ethernet networks, and spread spectrum radios, how to connect them to the data logger, and how to program these devices to provide information over services such as email and FTP.

Our two-day communications course is designed for experienced Campbell Scientific data logger users wanting to learn how to program for, and connect their data loggers to, various communications networks via a number of different methods.

There are some advanced programming techniques used in the course. Ideally, you will have either previous experience programming our data loggers or attended the two-day Data logger Programming in CRBasic course and had time to practice the concepts learned. (Discounts are available for both courses booked together.)

Important Information

- Course commences at 9 a.m. each morning and finishes at 5 p.m. 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 are 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 two weeks before the course. Cancellations after this time incur a 20% charge. No refund is given for cancellations 24 hours prior to commencement.
- Participant substitutes are welcome at any time prior to the course commencement; no substitutes are welcome after the course has begun.

Course Overview

- Overview of Communications
- Overview of LoggerNet
- Wired Communications
  - RS-232
  - RS-485
  - 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 Data Logger 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

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."

Information

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