

Our Bluetooth Starter Kit allows everyone to learn Wireless Data Acquisition in an affordable manner. For programming, they can use the industry specific LabVIEW, the popular .NET languages of Visual Basic, C++ and C# or the Open source Python language.

Our customers include

- **Educational Institutions** that would
 - like their students to learn wireless DAQ & LabVIEW but cannot allocate the time to create instructional materials and the budget for industrial grade DAQ hardware.
 - like to make their existing .NET language curriculum more interesting and relevant without incurring a high cost in terms of instructional materials creation or hardware.
 - interface Python to the physical world through sensors and actuators
- **Students** who need to use DAQ with LabVIEW , .NET language or Python as part of their coursework or during their work attachments.
- **Industrial users** who do not have to use DAQ with LabVIEW or a .NET language on a regular basis. Or the DAQ hardware is deployed in production and unavailable for training
- **Hobbyists** who are interested to explore the convergence of computers, control and communication.



Users of our starter kit can learn wireless DAQ and programming in a guided workshop or on their own in a self paced manner. The learner builds a wireless Light Intensity Logger using our step by step Instruction Guide in less than a day.

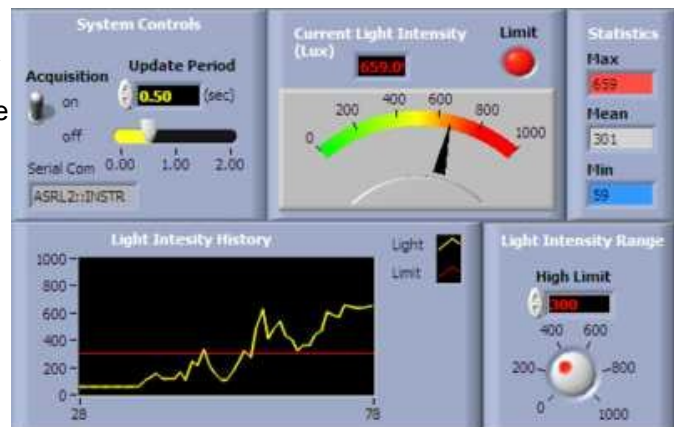
While Building the Light Intensity Logger, the user will learn

Sensor, Actuators - Light Sensor, LEDs, Switch

Data Acquisition - Analog Input, Analog Output, Digital Input, Digital Output

If they are using **LabVIEW**, they will learn

- Build VI
- Sub VI
- While Loop
- Charts
- Clusters
- Boolean comparison
- Arrays
- Use Statistical VIs
- Save data to File
- Shift Registers



If they are using the **.NET languages**, they will learn

- Basic Program Structure
- Variables & Statements
- Console Input/Output
- Branching Statement if else
- Loop for
- do Loop
- Array
- File IO
- Windows Form

For **Python**, they will run and examine Python examples.

The Low Cost Bluetooth DAQ Starter Kit comprises



- **EMANT380 Bluetooth DAQ module**
 - 22 bit Analog Input @ 10Hz sampling
 - PGA up to 128
 - up to 6 Single ended / Differential inputs
 - one 8 bit Current DAC
 - one 16 bit PWM or one 16 bit Counter
 - 8 Digital IO lines
- **Light Application Adaptor for EMANT380**
 - Light Sensor
 - LEDs
 - Switch
 - Screw Terminals for quick prototyping
- **3.3V Regulator and 3 AA battery holder** (batteries not included)
- Instruction guide **Build Light Intensity Logger**.
 - Separate guides for LabVIEW, C#, VB and C++
- LabVIEW driver and example programs
- .NET control for the EMANT300. Example programs in C#, C++ and VB
- Python driver and example programs.

To use LabVIEW, the user must have the LabVIEW Development System ver 7.0 or later for Microsoft Windows. To use the .NET languages, they need at least the .NET Framework 2 or later. For the Windows Form exercises, they need Visual Studio 2005 or later (including Express). To use Python, they should use ver 2.5 or later.

LabVIEW and Microsoft Windows are trademarks of National Instruments and Microsoft respectively