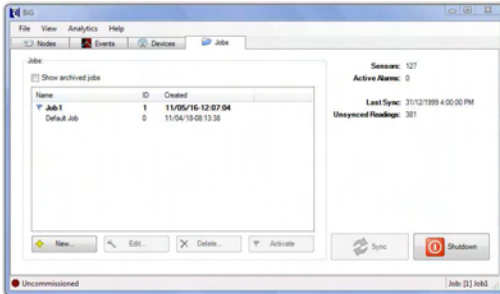



# 4

## Create Job

After the kit is functioning properly a new Job must be created.

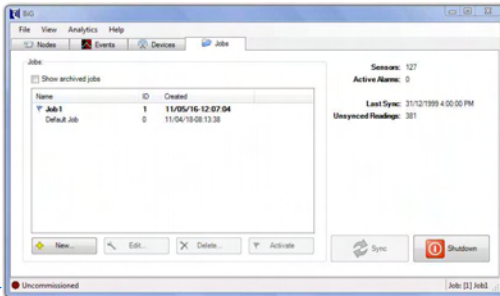


In the Jobs tab, click the New button and enter the information requested.

Choose the desired job and select  Activate

Install Mode is initiated when starting the WiDAQ where readings are taken every 30 seconds to assist with verification during setup. After the initial 1/2 hour install mode, the WiDAQ takes readings every hour.

### Confirm data transfer to Analytics



Select the Jobs tab and confirm readings are present in the export queue.

Click Sync and observe status indicator.

A green light indicates a successful transfer and a red light indicates an error condition.

Reposition kit location for improved cellular modem performance. Verify WiDAQ communication if kit is repositioned (see Step 3).

# 5

## Sensor Removal and System Shutdown

1. Select the Gateway tab and select Export Now to clear the export queue.
2. Select Default Job and click Activate.
3. Click the Shutdown button in BiG to close the software and automatically shutdown the computer.
4. Unplug the sensors from the WiDAQs.
5. Power off the WiDAQ by pressing the button twice.
6. Carefully remove the PMMs using the provided #1 Robertson bit. Be careful not to strip the screw heads.

## Troubleshooting

### Building Intelligence Gateway– Computer

Cell modem does not connect

- Reposition kit closer to windows or outdoor location.
- Confirm USB connections in lid are secure.
- Use Dial-up modem.

System Software Frozen

- Wait a few minutes to allow computer to finish processing data.
- Reboot by holding the Power Button for 15 seconds. Press the Power Button to restart.

### WiDAQ

LEDs do not appear after turning ON

- Press button twice to activate WiDAQ.
- Remove and reinsert battery after 30 seconds.
- Change 9V battery.

Red LED appears and no communication to BiG

- Indicates no communication with kit. Elevate WiDAQ or reposition closer to kit with less obstructions
- Cycle USB power by (un)plugging the WiKey

| Action             | Result   |
|--------------------|--|
| Press button twice | Turn ON/OFF<br>ON – Green Flashes OFF – Red Flashes                                      |
| Press button once  | Solid Green – Taking Reading<br>Solid Red – Failed communication                         |
| State              | Result   |
| Powered ON         | Solid Green – Taking Reading<br>Blink Green – Active<br>Blink Red – Failed communication |
| Powered OFF        | Press button once. Red – Unit OFF  |

# On-Site Monitoring System Setup



## INSTALLATION QUICK REFERENCE GUIDE REV B



## RESTORATION REPORTING SITE VERIFICATION

Phone: (204) 480-8579  
Email: [support@smtresearch.ca](mailto:support@smtresearch.ca)

[www.smtresearch.ca](http://www.smtresearch.ca)

# On-Site Monitoring System Setup

## 1 Restoration Kit Contents:

### Building Intelligence Gateway (BiG)

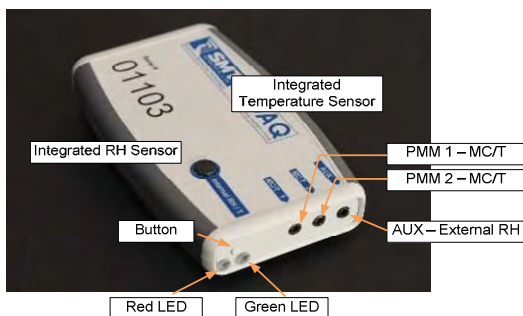
Forwards data collected on site to the SMT Monitoring Center.

### AC Adapter

Power supply for Gateway Computer

### WiDAQ (4)

Monitors moisture content and temperature from two PMM sensors and one AUX sensor such as an RH sensor.



### Screws (32) / Driver Bit (1)

#6 Stainless Steel Moisture probes for PMM and #1 Robertson in screw container.

### Point Moisture Monitor (PMM) (8)

Sensors used to monitor moisture content and temperature

### Dialup Modem with Cable (1)

Used for data transmission in areas where no cellular service is available. A telephone extension cable is located in the cable storage area. To use, plug the cable from the modem into an analog telephone wall socket. Use customer DSL filter if required.

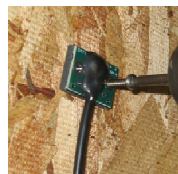
## 2 Sensor Installation

### Plan Installation

Determine the desired locations to monitor keeping in mind a standard kit allows up to 8 locations and each WiDAQ spans 12 feet between its two PMMs. If additional locations or increased span are needed, expansion packs and extension cables are available from SMT.

### Install PMM

Secure the PMM to the desired surface to monitor using two of the supplied screws. Tighten so that the screw head makes contact with the PMM and the rubber on the rear of the PMM starts to depress. *Over tightening could damage the sensor.*



### Connect PMMs to WiDAQ

Once the sensors have been installed, plug the 1/8 jacks into the corresponding locations on the WiDAQ (labelled MC/T 1 and MC/T 2). Place WiDAQ as high as possible for optimal reception.

Document sensor and WiDAQ locations using photographs.

*Locate WiDAQs within 30m (100ft) from kit. Communication distance will vary as walls, floors and ducts will degrade the signal.*

*If WiDAQs fail to communicate, re-position the WiDAQ itself or the kit.*



## 3 Gateway Computer and Initial Readings

Once all of the WiDAQs and sensors have been installed it is now time to start the Gateway.

1. Plug in the AC adapter to power the computer, lift the computer lid and press the power button.
2. The Building Intelligence Gateway application will automatically load.
3. Select the *Gateway* tab and verify that the *Default Job* is Activated. Refer to Step 4 for Job activation instructions.
4. Power on each WiDAQ by pressing the button twice. Refer to the Button/LED chart for status details.



5. Select the Nodes tab. A listing of all WiDAQs will appear in the left table.
6. Selecting any of the WiDAQs will display details for each sensor attached to that node on the right.
7. Selecting a sensor will result in having its data graphed in the bottom half of the window. Verify that valid data is available from all WiDAQs.