Quick Start Guide for XYR5000 Wireless Transmitter

Introduction

Installing your XYR 5000 wireless transmitters consists of four basic steps:

Step 1) Power up the Base Radio, set its channel, baud rate and determine the number of Transmitters talking to it.
Step 2) Turn on the Transmitters, configure their RF parameters to match the RF parameters in the Base Radio.
Step 3) Load the Wireless Management Toolkit software on your PC.
Step 4) Set up your output devices to give you 4-20mA or discrete switch outputs.

Beyond these basic steps, there are numerous advanced capabilities of the devices including digital outputs, multiple Base Radio networks etc. that are covered in more detail in the User Manuals. Full copies of the User Manuals can be found on the enclosed Documentation CD. This CD contains all the User Manuals for the Transmitters, Base Radio and Output Modules.

It is always a good idea to do your initial set-up in a convenient test area to be sure that the Base Radio and Transmitter(s) are communicating properly before installing the Base Radio in its final location. Once you have established communications and are ready to move the units to their final installation area, turn off the Transmitters and power down the Base Radio. If the Transmitters are operational with no Base Radio to talk to, they will continuously try to communicate with the Base Radio, which decreases battery life.

Step 1. Base Radio Installation

- Base Radio needs 24VDC power.
- Base Radio to a PC typically needs a RS-485 to RS-232 converter
- Installation of the Base Radio should be at least 1 foot away from the nearest physical object. Do not enclose the antenna! It will affect RF communications.

CAUTION! Equipment damage possible.
1. Do not connect power to A or B terminals on the Base Radio or Quad Module.
2. Do not connect 2 power supplies to the Base Radio or Quad Module.
3. Do not connect voltage in excess of 30VDC to the Base Radio and or Quad Module.
4. Connect power either to WMT or to Modbus terminal but not to both.

Failure to take these precautions will cause irreparable damage to the internal components of the devices.

From the factory, the Base Radio is set with the RF communication turned off, but the Base Radio should be operational as soon as the power is applied. You will need to select a channel number and the RF baud rate for the Base Radio. It is a good idea to record the channel number of the Base Radio to be sure that the various Base Radios on your site are all set to different channels. If you have more than one Base Radio with the same channel number within radio range of each other, you will get static or transmission cutouts caused by the data conflict.

(If you don’t see the Base Radio display light up when you power it up, the Base Radio is probably turned off. To turn on the Base Radio press the <NEXT> and <ENTER> buttons simultaneously for approximately two seconds, display will flash, then release the push buttons. The default configuration password is 0000. To accept the password, press <ENTER> four times to accept the zeroes.

Set the following three settings for the Base Radio using the push buttons.

1. Set RF channel (RF CHAN): ___________________________ (Page 10 of the Base Radio User Manual)
2. Set Baud Rate (BAUD RT): ____________________________ (Page 10 of the Base Radio User Manual)
3. Set the number of Transmitters (NUM WI): ________________ (Page 9 of the Base Radio User Manual)

The Base Radio comes with two 120 Ohm Termination Resistors for terminating long RS-485 networks. Please see the Base Radio User Manual, Section 3.2, for use and installation instructions.
Step 2. Transmitter

To turn the Transmitter on, press the <NEXT> and <ENTER> buttons simultaneously for approximately two seconds, display will flash, then release the push buttons. The default configuration password is 0000. To accept the password, press <ENTER> four times to accept the four zeroes.

The following three parameters must be set to match the corresponding parameters in the Base Radio:

1. Set RF channel (RF CHAN): _________________________ (Please consult your User Manual for details)
2. Set Baud Rate (BAUD RT): __________________________ (Please consult your User Manual for details)
3. Set RF Identification number (RF ID): __________________ (Please consult your User Manual for details)

The RF ID number should be set up sequentially starting at 1. The first Transmitter should be 001, the second Transmitter should be 002, and the third Transmitter should be 003 and so on.

Step 3. Wireless Management Toolkit (WMT)

WMT is the client/server software that will allow you to monitor, track, and remotely configure the Transmitters. To load the software onto the computer, load the CD into your computer’s CD drive. The software should begin to install automatically. If there are any problems, see page 4 of the Wireless Management Toolkit User Manual.

To run the software, double click the WMT Icon on your desktop:
User: Admin
Password: password
Please consult the Wireless Management Toolkit User Manual for more information.

Step 4. Output Module
(Including 51453568-001, 51453568-002, 51453568-003)

Wiring Diagram:

If using more than one output module, please consult the Electrical Installation section of the Output Module User Manual for “Daisy-Chaining” instruction.

Power to Output Module: 24VDC
Connection to Base Radio: RS-485 Serial Cable
Analog output connection: 4-20mA Analog Output (must be loop powered!) 51453568-001 and 51453568-003 only
Digital output connection: Digital Switch Output (must be loop powered) 51453568-002 and 51453568-003 only

Please consult the XYR 5000 Output Module User Manual, Section 5.3, for instructions on mapping the Transmitter input to an output loop on the module.

Technical Support
For questions during install, please contact Technical Support at:
U.S.: 1-800-423-9883, Europe: +44 1425 463941, email: bill.europe@honeywell.com