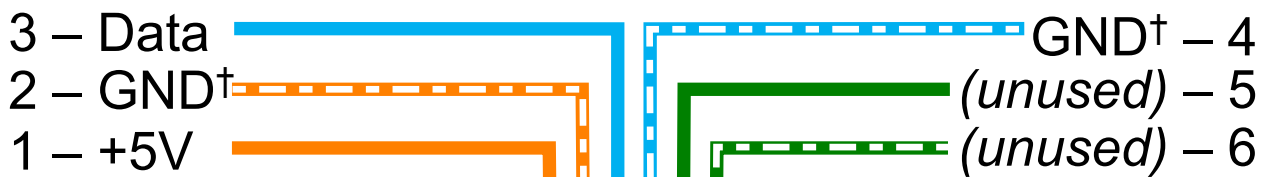


Digital Sensor Bus pinouts & wiring



[†] *important note: both GND pins must be connected for proper sensor operation.*

Note: pins marked “(unused)” are not required for the current generation of WeatherGoose or WatchDog-series products. However, these pins may be used in future designs, so ITWatchDogs recommends that any cable extensions, splitters, or patch-panel wiring should bring all six pins across from end to end.

If you wish to mount one or more ITWatchDogs’ Digital-Bus sensors in a different location than the WeatherGoose or WatchDog-series host monitoring unit itself (to monitor conditions in a second room across the hallway, for example), it is possible to connect the sensors through an extension cable, or to use your building’s existing patch-panel wiring for telephone or Ethernet connections, as long as the following restrictions are observed:

- All six pins of the 6P6C modular jacks/plugs must be wired “straight-through”; i.e. pin 1 to pin 1, pin 2 to pin 2, etc. Signals must not cross over from one pin to another, so if you attempt to extend the sensor wiring from one room to another via a telephone or Ethernet patch-panel, be careful that the panel and/or wall jacks aren’t already wired to “cross” any of the tip/ring or transmit/receive wire pairs.
- Remote sensors can only be connected to the host monitoring unit directly through plain copper-wire runs between sensor and monitor; they cannot be connected or extended via Ethernet switches or routers, or via telephone-switching equipment.
- The total amount of Digital Sensor Bus cabling cannot exceed 600ft. This total applies to each host monitoring unit and all of its attached sensors as a whole; i.e. you can have a single external sensor located 600ft away from the unit, or two sensors with 300 ft. cables, or six sensors with 100ft. cable lengths, and so on, as long as the total does not add up to more than 600ft.
- Excessively long cable runs, or connections through multiple patch panels, may increase the likelihood of impedance-matching problems or EM interference, which in turn may cause unreliable operation of the sensors, so connections between the host monitoring unit and the remote sensor(s) should be kept as short and direct as possible.

IMPORTANT NOTE:

Unreliable operation of the sensors or host monitoring unit is likely to occur if these recommendations are not followed!

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- 120712A – Initial release (12 Jul. 2012)