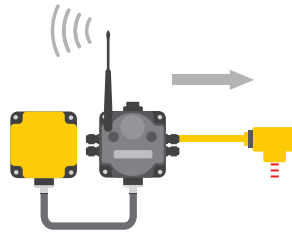


Theory and Terminology

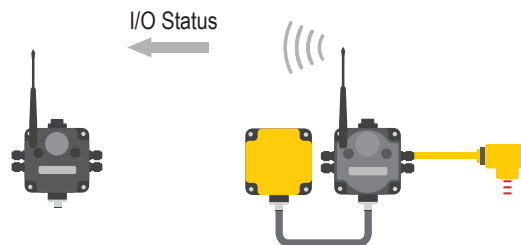
Sample Rate, Report Rate, and Polling Rates

Sample rate, report rate, and polling rate describe three different communication types between the Gateway, Node, and/or sensor. These are not interchangeable terms.

The sample interval, or rate, defines how often the Sure Cross device samples the input. For battery-powered applications, setting a slower rate extends the battery life.



The report rate defines how often the Node communicates the I/O status to the Gateway. For *FlexPower*® applications, setting the report rate to a slower rate extends the battery life. Setting the report rate to zero selects change of state reporting. Change of state reporting sets the system to report only when the value crosses the threshold setting.



The Gateway communicates with, or polls, each Node to determine if the radio link is active. The polling rate defines how often the Gateway communicates with each Node. Polling is always initiated by the Gateway and only verifies radio signal communications.

