

# Product Description

The DAQ Retrofit component from BTE Technologies is part of a larger system, the ER system. The ER system designed to capture and record human performance data. The system is designed with an assortment of sensors to measure the strength and range of motion from a test subject. The DAQ retrofit component connects a variety of force and position sensors to a PC host. In addition, it receives heart rate data from a remote transceiver (previously certified component).

The DAQ Retrofit communicates with the remote heart rate transceiver on a wireless link. The RF communications are effected by an off the shelf low power radio transceiver from Radiotronics Inc. For North American applications, the transceiver operates in the 902-928 MHz band. A corresponding 868-870 MHz module is used for Europe.

Data is acquired from the remote transceiver by means of a polling architecture. The DAQ Retrofit component periodically requests data from the remote transceiver. The remote transceiver encodes heart rate information and sends a response packet. The response is transferred back to the PC host.