

TestStand and LabVIEW Automate Personal Help Button PCB Testing

Customer

Lifeline Systems Inc. (Framingham, MA) provides personal help buttons and emergency response services for the elderly and disabled.

Challenge

Replace an outdated printed circuit board functional test system used for testing personal help buttons while avoiding production downtime.

Solution

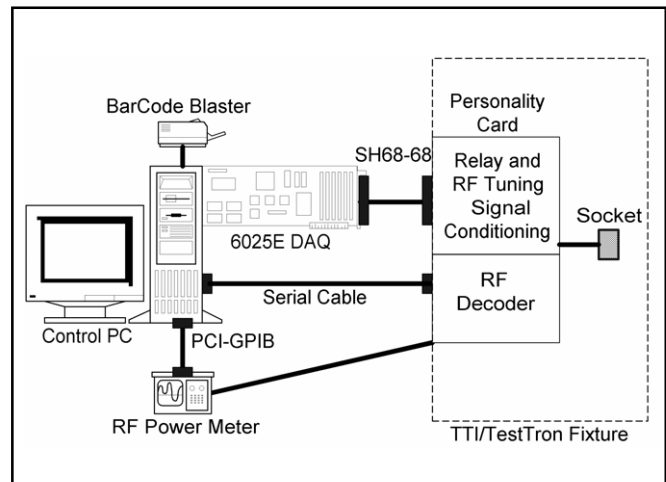
Create a computer-based functional test system that allows an operator to log in, load a selected test sequence, and monitor the operation of tests in progress. Upon test completion, the operator can print a test report, and all test data is saved to a Microsoft Access database for later analysis.

Key products used:

- National Instruments (NI) TestStand
- NI LabVIEW
- NI PCI-6025E data acquisition board
- NI PCI-GPIB interface board



User interface displays battery power measurement



System diagram

Benefits

Product test time reduced from 11 seconds to less than 4 seconds per unit, a more than 60 percent time savings.

“Continuous improvement, contract manufacturer control, and lot traceability have been greatly simplified, thanks to our new test systems developed by Bloomy Controls.”

– Elaine Fasoli Bailey, Manager of Quality Assurance and Process Control, Lifeline Systems Inc.

To achieve similar results, contact our office nearest you or visit www.bloomy.com.

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