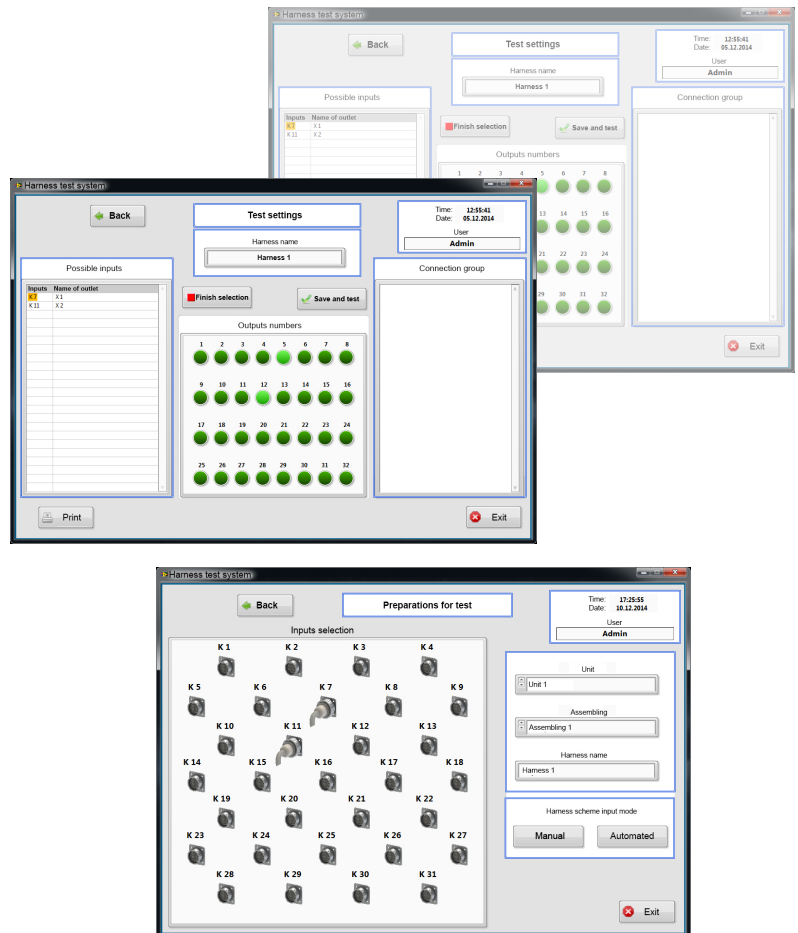


# Automated Testing Equipment for Wiring Harnesses

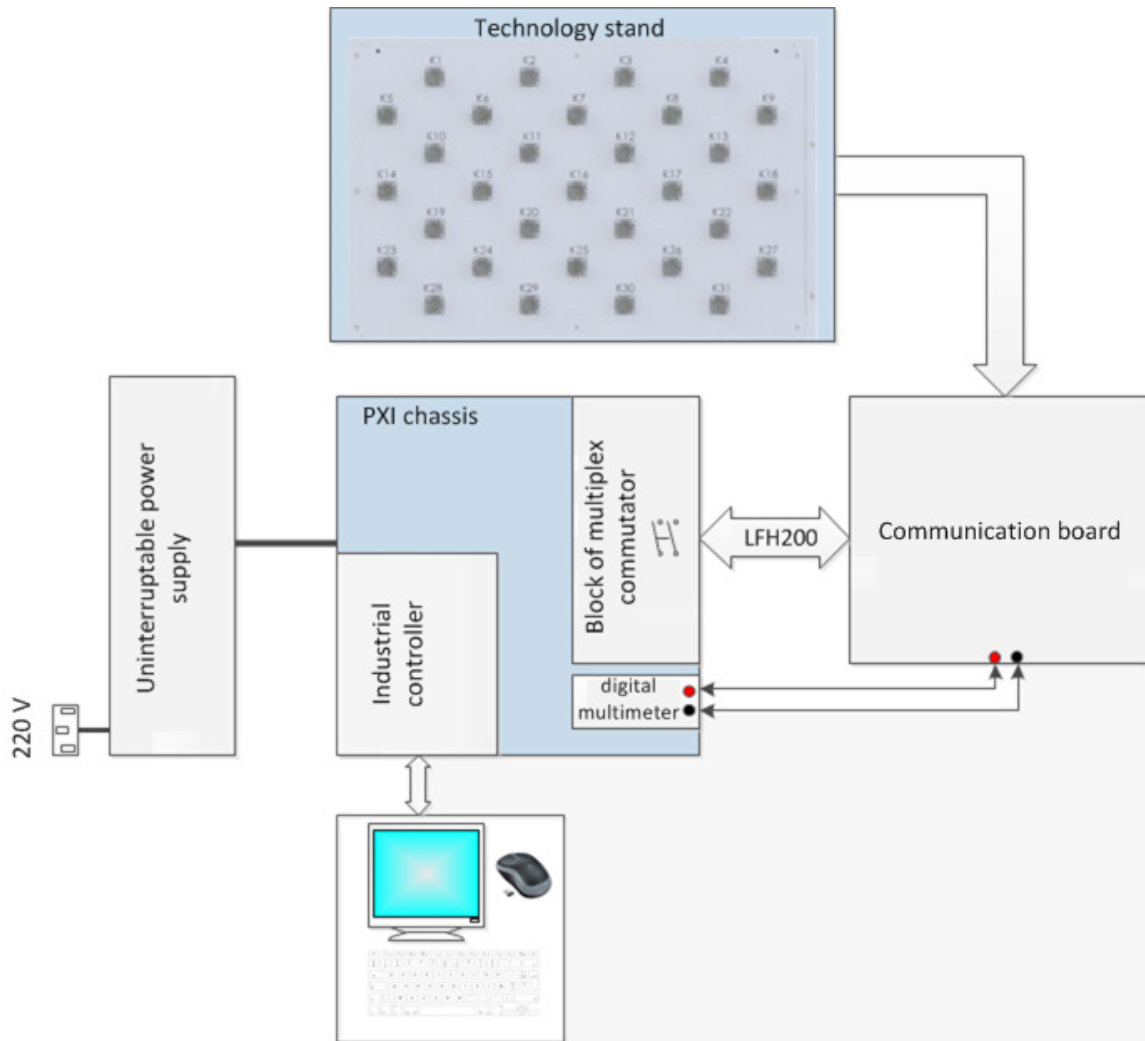
## Overview

The automated testing equipment for wiring harnesses is intended for testing different types of wiring harness. The system allows to test wiring harnesses with wire quantity up to 1024 in order to detect short circuits, broken wires and defective insulation. It's also equipped with industrial rack-mount monitor with mouse drawer, smart UPS system and PXI based control and measurement system by National Instruments. A special rugged case has been designed and developed to allow utilizing the system in rough conditions.



## Features

- Reading of the configuration data of tested harnesses previously saved in the configuration file
- Automatic determination of the reference harness schematic connection with the possibility of saving log file in the harnesses data base
- Input of harness schematic connection manually
- Testing mode selection
- Filling of database with the test results
- Possibility of operator name input (or other identification data) as well as harness index number (or harnesses)
- Report generating after test completion and saving in .pdf format



## Operation

The wire outputs of the wiring harness under the test are switching to the input of high precision multimeter module by means of multiplexer modules. The multimeter preliminary configured to the appropriate mode of the measurement. The system is capable to avoid the influence of bounces of electromechanical relays' contacts to increase the measurement accuracy. All the mentioned process is controlled by special software allowing visualizing the testing progress.