



The Revolutionary Engineering Pro System (REPS)

REPS is a highly configurable and easy-to-use test cell automation system. Which provides each customer with complete control over every aspect of their test system.

REPS runs and automates different types of tests, including part failures, efficiency, speeds, torques, and impacts. It allows the user to create reports and logs in a range of formats.

It uses a desktop PC with a user interface, a RT for data acquisition and control, and an EtherCAT input/output Chassis for system interfacing. The RT accommodates multiple industrial communication protocols allowing the user to attach a variety of measuring instruments and devices.

Core Capabilities

- Fully configurable control modes
- Configurable displays, buttons, and indicators
- Master Setup which links individual setup files for convenient saving and loading
- HIL simulation
- Customer add-ons through our LabVIEW Plug-in (LVP)
- Road load simulation
- Powerful test profiler
- Playback for importing and replacing field-measured data
- PID control
- Authentication for managing user and access rights
- Web based and VNC based remote access



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Channels

- 8,000 standard channels that can be user modified
- Built-in channel calibration utility
- User defined PID parameters
- Constant or variable alarm limit
- Configurable low pass filter channels
- Virtual channels
 - Waveform
 - Ramp
 - Integration
 - Differentiation
 - Formula
 - Trigger

Communication Protocols

- CAN, CAN FD
- FlexRay, ASAP3, CCP, XCP
- Existing drivers for external instruments
 - AVL smoke meter and micro soot sensor
 - HBK power meters
 - Throttle and shift controllers
 - CAS drivers
 - Opdax water-cooled chillers/heaters
 - Sorenson power supplies
 - Revolutions counters

Reporting

- Real time data logging
- Post mortem logging
- Multiple data report formats (TDMS, Text, MS Excel)

