Labview Manual: PSH Voltage Profile Tester

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# Purpose and Scope

This document represents the test procedure for evaluating the protection of electrical devices and covers a broad range of test specimen. The purpose of this procedure is to outline the general test method used to evaluate a device’s protection classification and or designation.

# References

## External

**EN 60529**, *Ingress Protection Codes*

**IEC 60529**, *Degrees of Protection Provided by Enclosures*

**EN 50436-1**, *Alcohol interlocks test methods and performance requirements Part 1: Instruments for drink‑driving‑offender programs*

**EN 50436-2**, *Alcohol interlocks test methods and performance requirements Part 2: Instruments having a mouthpiece and measuring breath alcohol for general preventative use*

**CSTT‑HVC‑TR‑150**, *Test Protocol for Vehicular Breath Alcohol Interlock Devices in Canada*

## Internal

**ACS-LI-009**, *Operation of Force gauge*

# Definitions and Abbreviations

**DUT**Device under test

**DVP&R**  
Design verification plan and report

**TER**  
Technical evaluation report

# Required Equipment and Materials

* 1-2 gwInstek PSH model Power Supplies
* 1-2 PSH communication cables

## Program Overview

### Mechanical Test 1mm Wire

### Observe the for any openings or access points that could potentially expose hazardous internal components.

### Mechanical Test Dust Protection

### Water Test Dripping at 15°

### Water Test Splashing Water

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# Program Operation

shall conform to the requirement outlined in the relevant specification. In the event that no specification is outlined then the device should meet the requirements set for by the manufacturer or at the minimum an IP40 classification.

# Troubleshooting

This software is optimized for timing….