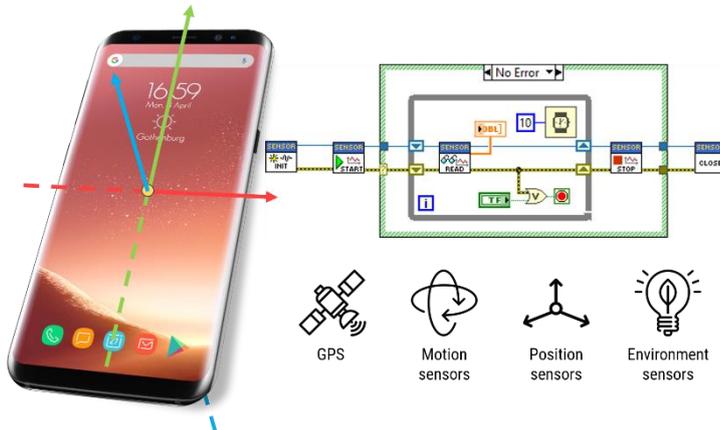# WF Smartphone Sensor Toolkit

LabVIEW Toolkit

The WF Smartphone Sensor Toolkit for LabVIEW makes it possible to utilize smartphone sensor data in your LabVIEW application.

Just start the WireFlow Sensor Toolkit application on your smartphone, connect wirelessly over WiFi or plug it into a Windows PC or a NI Real-Time target with a USB cable and start collecting sensor data.

GPS | Motion sensors | Position sensors | Environment sensors

Application areas

- Remote control
- Meta data acquisition
- Education

Features

The following measurement data is supported in the toolkit and can be acquired from a smartphone*.

- Accelerometer
- Gyroscope
- Magnetic field
- Rotation vector
- Geomagnetic rotation vector
- Gravity
- Light
- Linear acceleration
- Pressure
- Proximity
- Relative humidity
- Ambient temperature
- GPS position
- GPS time

*Available sensors may vary depending on smartphone model

Requirements

LabVIEW for Windows or LabVIEW for Real-Time targets (2014 or later)
Android smartphone, API level 19 or greater
WireFlow Sensor Toolkit Android application (available in Google Play Store)
Wired (USB) or wireless (TCP/IP) connection between your smartphone and your Windows PC or NI Real-Time device