



Complete Vehicle Testing Solutions →



*ISAAC Instruments redefines
'DURABILITY TESTING' and
'MISSION PROFILING' by providing
the tools to study statistical
populations of vehicles.*

The ONE-STOP-SHOP

*ISAAC Instruments' experienced engineers
interact closely with customers in order to
keep developing innovative products that
offer maximum flexibility and meet the
highest standards.*

*Our top priority is to help customers concentrate on their
projects, not on the tools they use. ISAAC Instruments
specializes in providing its customers with **complete
vehicle testing solutions**, and is the one-stop-shop that
offers user-friendly, affordable, reliable and powerful
RECORDERS, SENSORS, CONNECTIVITY and SOFTWARE.*



Only ISAAC Instruments provides complete vehicle testing solutions encompassing fleet management through durability and prototype testing.



Increased Sampling Rate / Increased Cost →

Fleet Management

Number of Vehicles
10–10,000 vehicles

Number of Parameters
1–10 parameters

Sampling Rate
0.1–1 samples/sec

Data Transfer Methods
RF / GPRS / SAT / CDMA

Cost per Installation
\$500–\$2,500
Stand-alone

Durability / Mission Profiling

Number of Vehicles
10–100 vehicles

Number of Parameters
1–100 parameters

Sampling Rate
1–1,000 samples/sec

Data Transfer Methods
USB / RS-232 / Bluetooth /
RF / GPRS / CDMA

Cost per Individual
\$2,500–\$20,000
Stand-alone

Prototype & Engineering Tests

Number of Vehicles
1–10 vehicles

Number of Parameters
10–1,000 parameters

Sampling Rate
100–1,000,000 samples/sec

Data Transfer
USB / Ethernet / PC Bus

Cost per Individual
\$20,000 – \$500,000
Stand-alone or PC-based

Recorders



ISAAC Instruments' data recorders are compact and rugged, and they pack all the right features.

- *Stand-alone operation*
- *Digital/frequency channels*
- *Analog channels*
- *Vehicle network channels (CAN and others)*
- *Built-in accelerometers*
- *Large memory capacity*
- *Fast sampling*
- *Expandable channel count*
- *Configurable channel filtering*
- *Various auto-start recording modes*
- *Wide operating temperature range*
- *Wireless connectivity*

Sensors



ISAAC Instruments offers an extensive array of detectors, sensors and modules, all supplied with their calibration parameters, thus providing the fast track to measure the following.

- Temperature
- Pressure
- Displacement
- Force and strain
- Fuel flow
- Acceleration
- Airspeed, wheelspeed, groundspeed
- Electrical current and voltage
- Global positioning (GPS)

Connectivity



ISAAC Instruments provides the complete measuring chain, bringing the vehicle network and sensor data to your desktop through a selection of flexible communication technologies.

Wireless connectivity

- *Bluetooth transceiver, connects to PalmOS™ PDA or Windows™ PC*
- *Long range radio transceiver*
- *Cellular network transceiver (GPRS)*

Vehicle connectivity

- *High-speed CAN*
- *Fault-tolerant CAN*
- *Single-wire CAN*
- *J1587/1708*
- *OBD-II, J1850PWM*
- *OBD-II, J1850VPW*
- *OBD-II, ISO9141*
- *OBD-II, ISO14230 KWP*
- *OBD-II, ISO15765*
- *Proprietary vehicle networks*



Analyzer V8 for Windows™

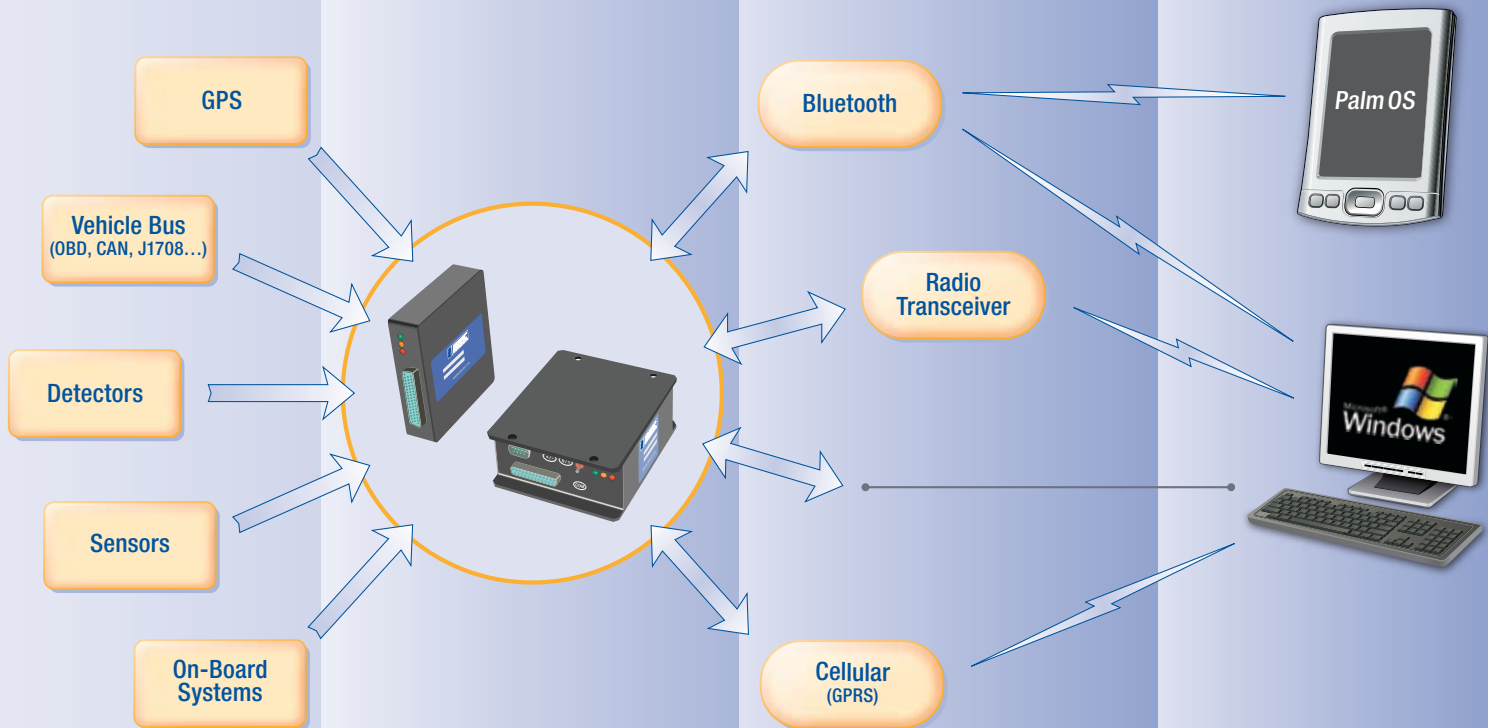
- Easy configuration and calibration
- Graphs: Time based, distance based, X-Y and Histograms
- Math channels
- Alarm and channel reports
- Real-time display

Fleet Manager V2 for Windows™

- Report Vehicle history over time or distance
- User-configured channel profiles
- Alarms
- GPS Mapping

ISAAC Instruments also provides a complete suite of PalmOS™ applications to provide further recorder control and data display, entry and download.

ISAAC Instruments' powerful and user-friendly software makes the most of Windows™ and PalmOS™ operating systems. It allows users to CONFIGURE, DISPLAY, EXTRACT, REDUCE, ANALYZE and COMMUNICATE efficiently.





BRENT RIJNOVEAN
DIRECTOR

MOTION MEASUREMENT SYSTEMS

ISAAC Instruments inc.
2054 Bourgogne
Chambly, Quebec, Canada J3L 1Z6
Tel: (450) 658-7520 Fax: (450) 658-3322
info@isaac.ca www.isaac.ca

PHONE: 313.729.9898
BRENT@BRENDELASSOCIATES.COM

24407 ROCKFORD STREET
DEARBORN, MI 48124

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