

Nexus Telematics

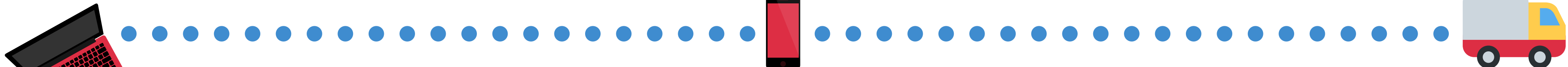
AIC 904/908 VERITAS FLOWMETER

Fuel consumption measuring system

AIC 904/908 VERITAS FLOWMETER

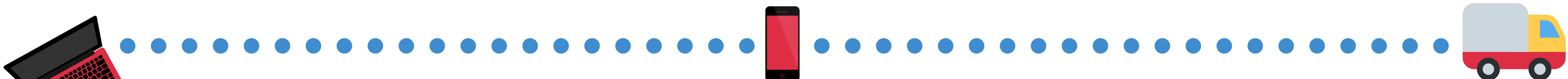
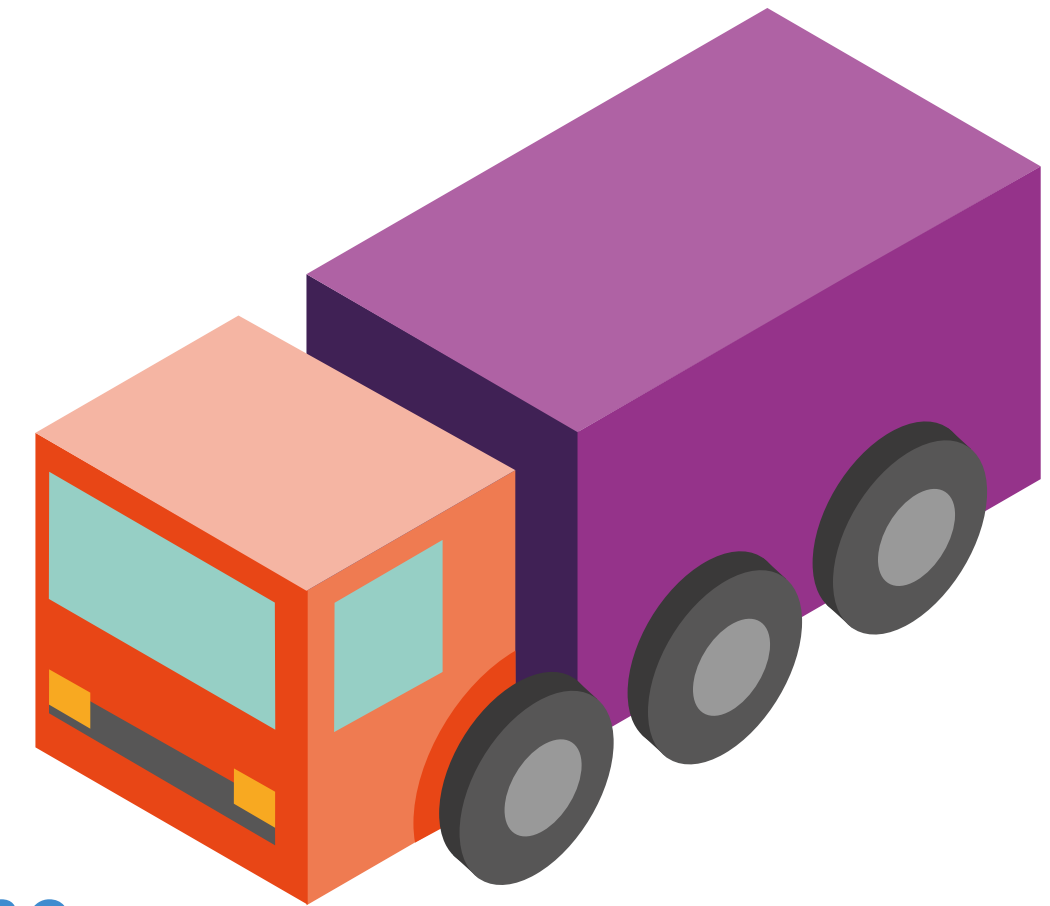


- Flowmeter which measures consumption for Diesel Engines
- It is ideal for vehicle fleet management systems
- The equipment was designed for constant monitoring of vehicles
- It is mounted the engine fuel line and it measures the exact fuel consumption
- It can measure any kind of fuel, including biofuel



Functions and Benefits

- Can be mounted on medium and large trucks, buses, construction machinery, tractors, motor-boats and other vehicles
- It shows the exact total fuel consumption
- A fuel filter protects the equipment
- Constantly used technology for more than 20 years
- It does not require a connection to the vehicle's electric devices
- Compatible with all types of injection based engines (the one exception being: Cummins HPI open injection systems)



The package contains:

- AIC 904, 908 or 908s Flowmeter
- Fuel Filter
- Cables for electrical inputs and output
- Installation joint



Flowmeter Models

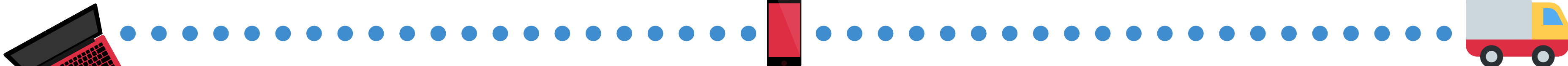


- AIC 904 | AIC Ref. s904
Flowmeter + Fuel Heat
Protector (optional) AIC Ref.
1480



- AIC 908 | AIC Ref s908
Flowmeter

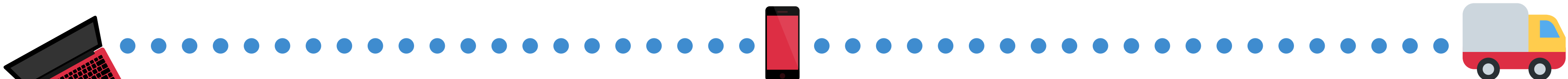
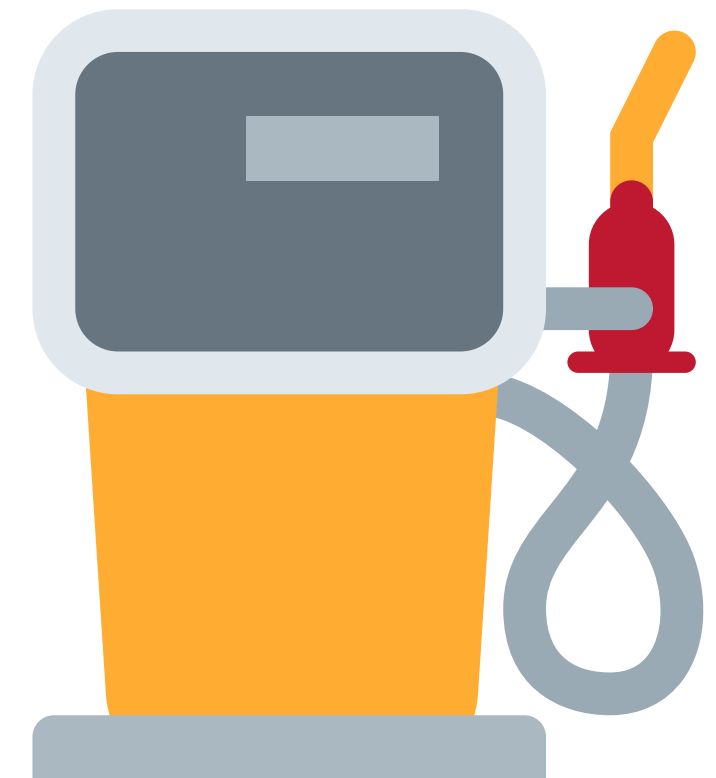
Every equipment is produced as a module for simple installation.
Every component is manufactured with stainless steel.



Consumtion Measurement Principles

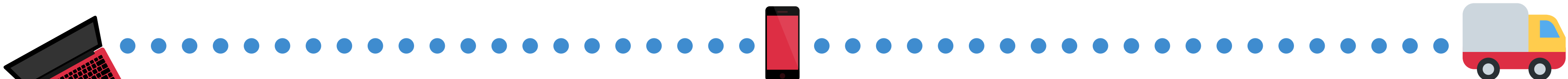
There are 2 types of fuel consumption monitoring, when using the engine fuel system:

- Direct measuring: the fuel does not return to the engine. The returning fuel is reinjected into the circulation system of the injector circuit
- Differential measuring: the returned fuel is deducted from the used fuel. The returned fuel goes back into the fuel tank



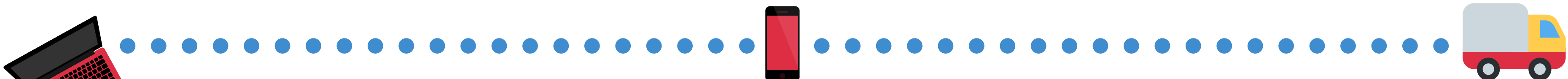
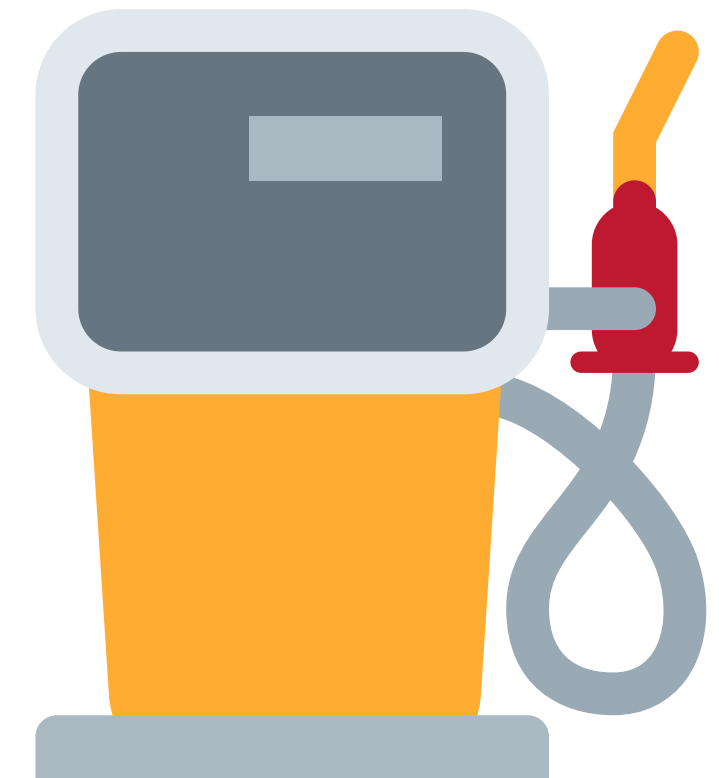
AIC System LTD has developed the best fuel measuring solution: the **DIRECT** measuring of fuel flow. This solution has an error of $\pm 1\%$ ($\pm 2\%$ fidelity).

Differential measurement has at most a 5% fuel measurement precision.

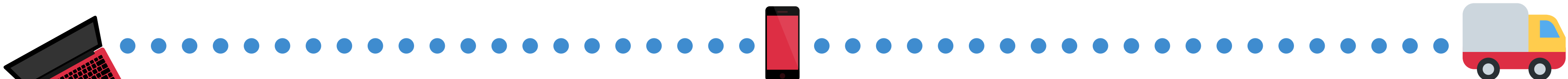
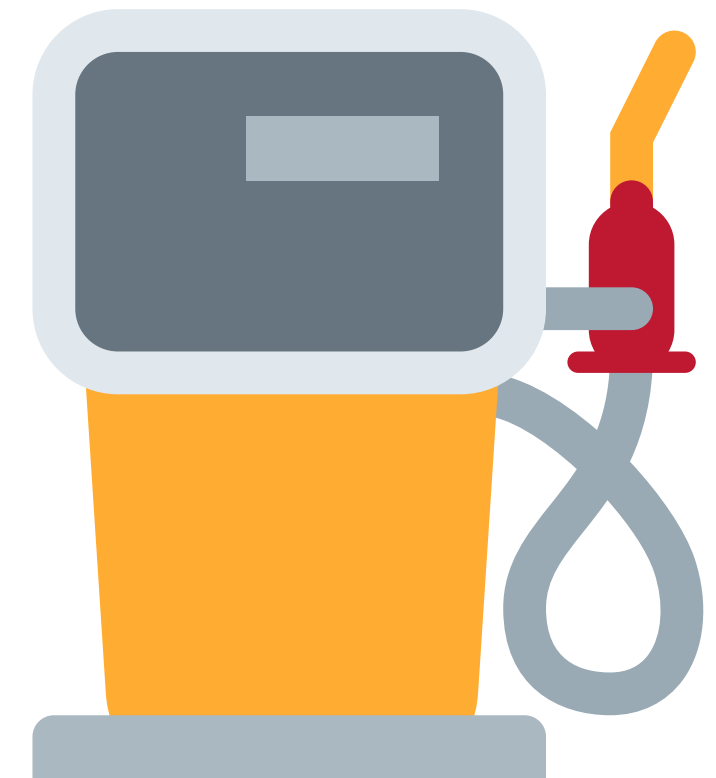


Used technologies:

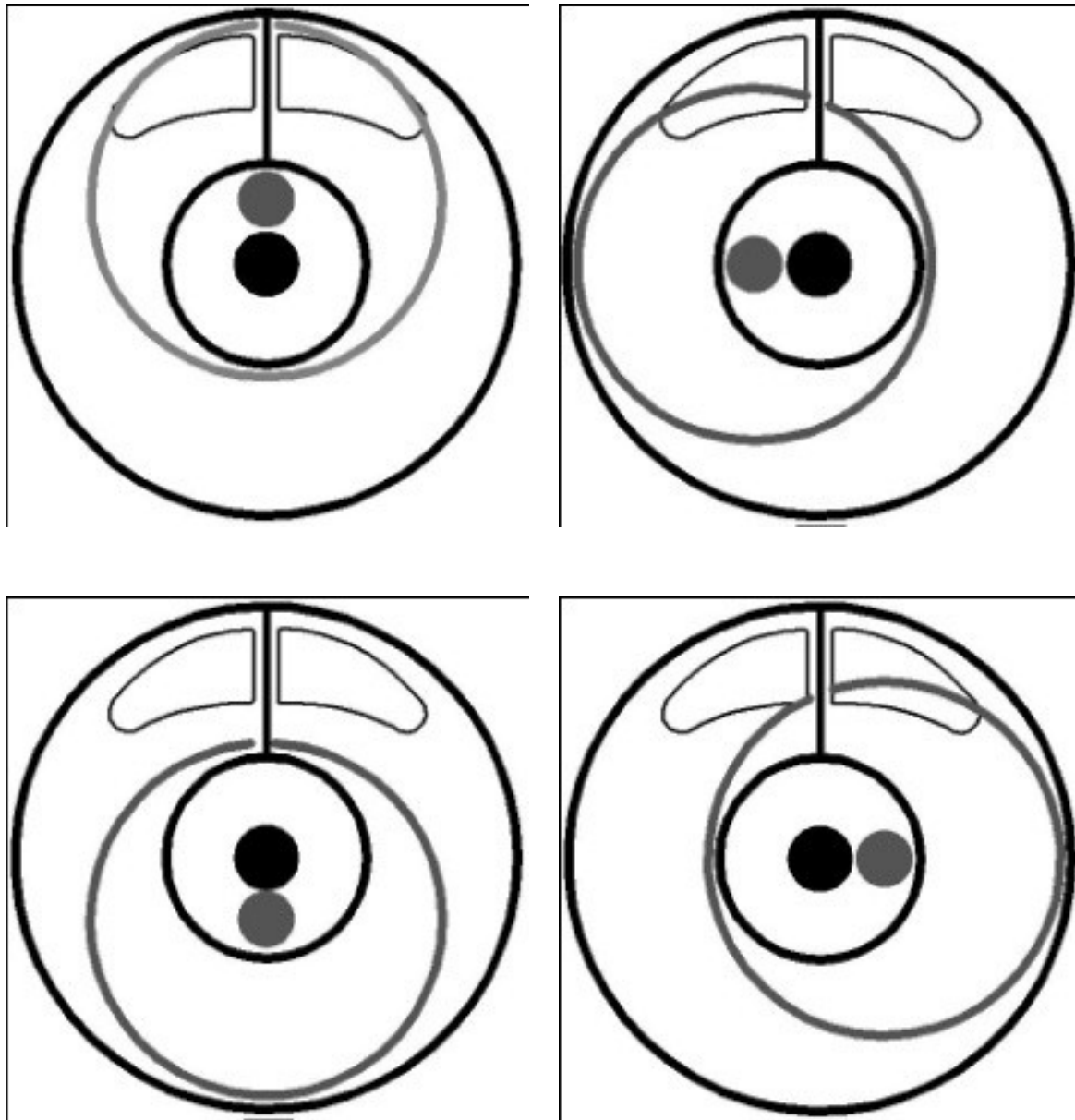
- Flow is measured by a high voltage pulse rate
- The control and pulse technology is based on SMD (surface mounted device). It was designed with a high water and vibration resistance.
- Rotating piston technology.
- AIC SYSTEMS Ltd. uses the safest design with the least amount of wires and detachable parts.



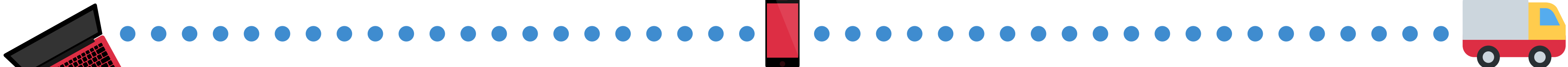
- The high voltage pulse measures every element of the whole flow. AIC-904 VERITAS is equipped to handle 200 ppl, and AIC 908 VERITAS is equipped to handle 80 ppl
- The rotating piston technology is perfect for measuring fuel consumption. A single mobile piston oscillates in a measuring room and is protected by a thin layer of fuel which maintains the piston afloat. This allows the flowmeter to have the least amount of mechanical friction

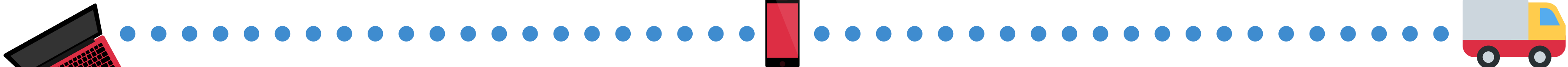
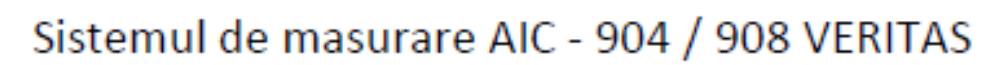


Calibration

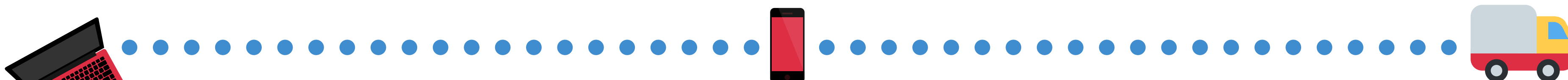


- Every module was carefully calibrated when it was manufactured
- Custom calibration can be done on request





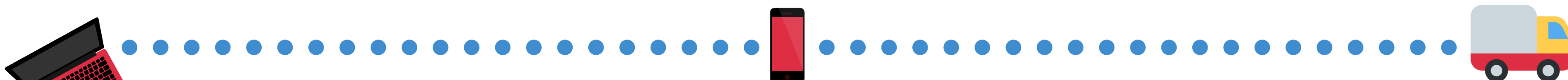
Other Nexus Electronics Business Services





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