

USBIM - LITE (Orbit3 USB CONTROLLER)

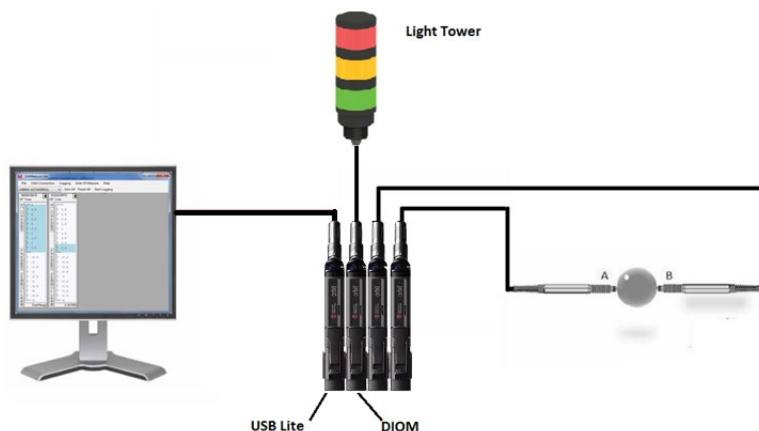
Description

The USBIM – Lite is a cost effective controller for small Orbit Digital Measurement Networks where the user does not require the full power of the standard USBIM



Applications

The USBIM- Lite is designed for measurement application where 4 or less sensors are required. For example a basic diameter measurement, where the USNIM-Lite is Running (2) probes and for a diameter check and using a DIOM to indicate process status



Benefits

The USBIM – Lite is fully compatible with all of Solartron Orbit products and interfaces with all of Solartron Software.

Design and Functions

The USBIM-Lite has the following characteristics

- ▶ Rugged Plastic Housing
- ▶ Connect up to 4 sensors or modules*
- ▶ DIN Rail Mounting for easy installation
- ▶ User friendly

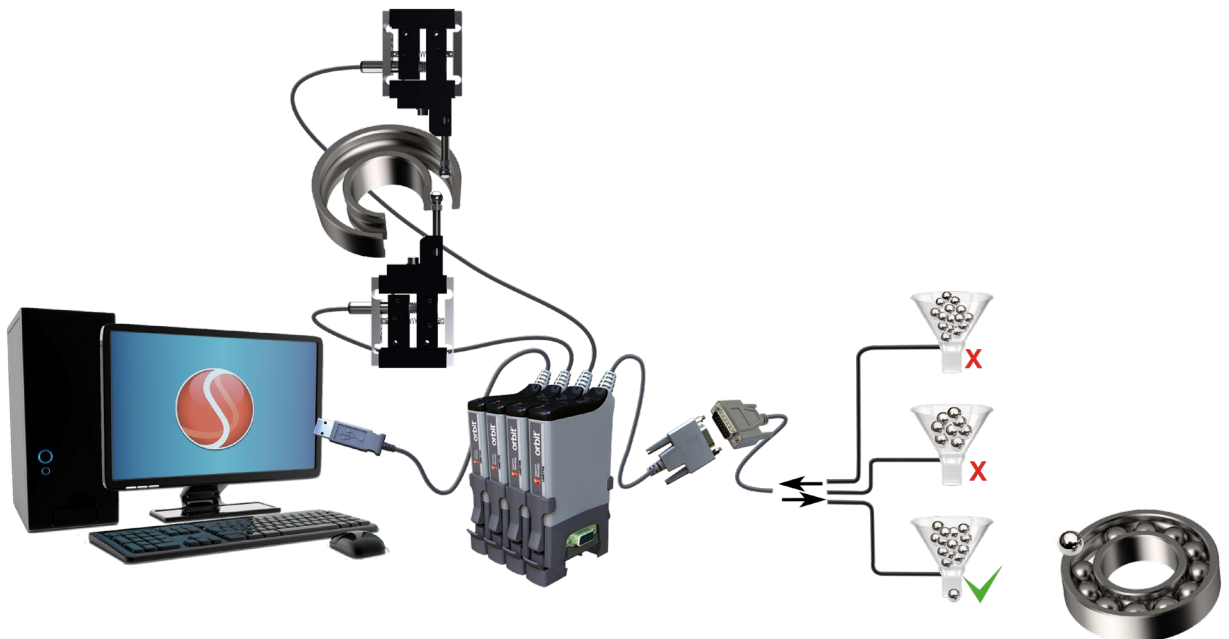
* Depends on module power consumption

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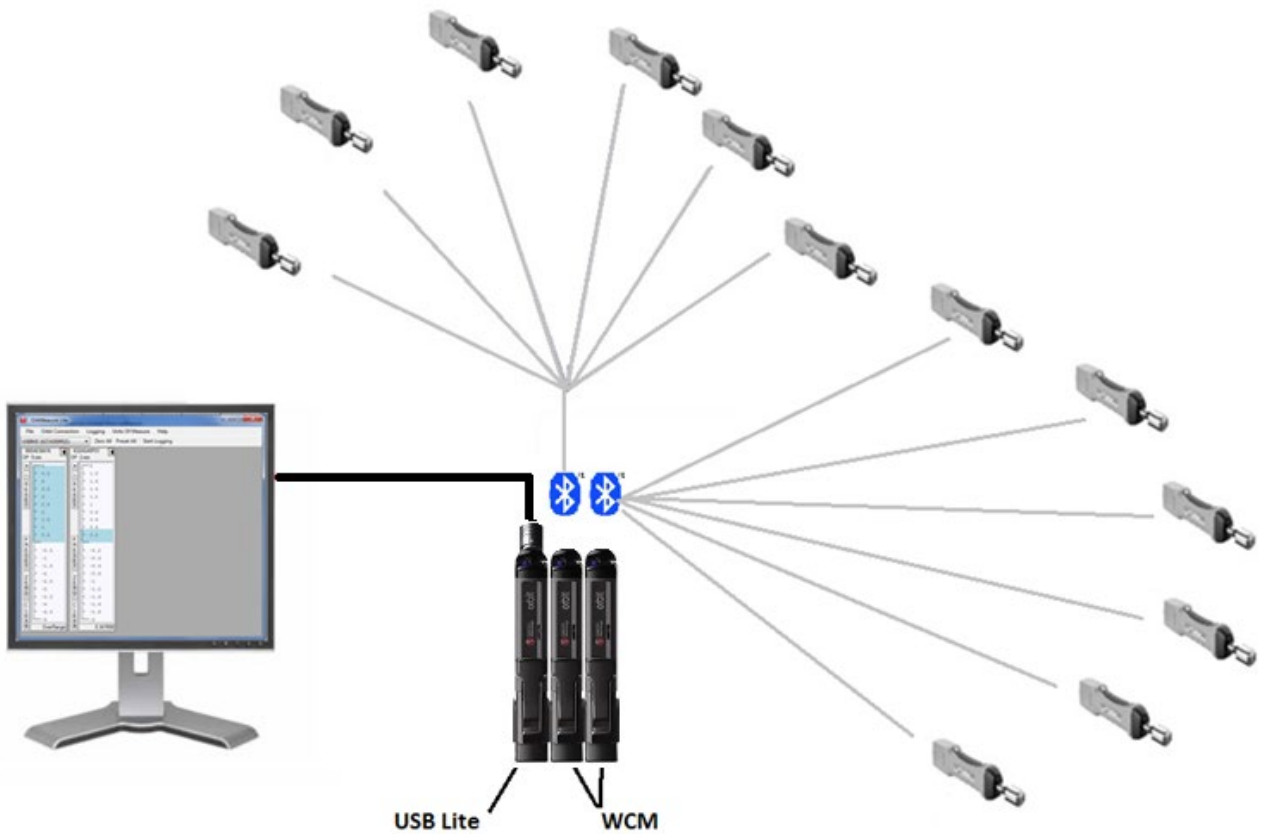
Applications: Bearings

In bearing manufacture it is necessary to match bearing races to the best ball size to create the best bearings.



In this application a USBIM-Lite provides the interface to two Solartron flexures that check the size of a bearing race, this data is then processed by Orbit and a DIOM2 is used to select the correct size balls to best match the race. The flexures provide excellent repeatable measurements with a very long life

Applications: Wireless Hand Gauges



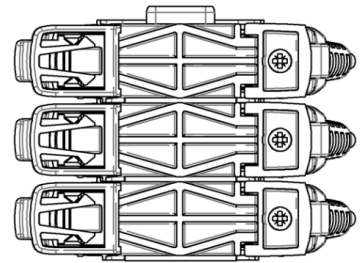
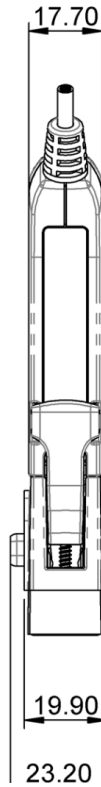
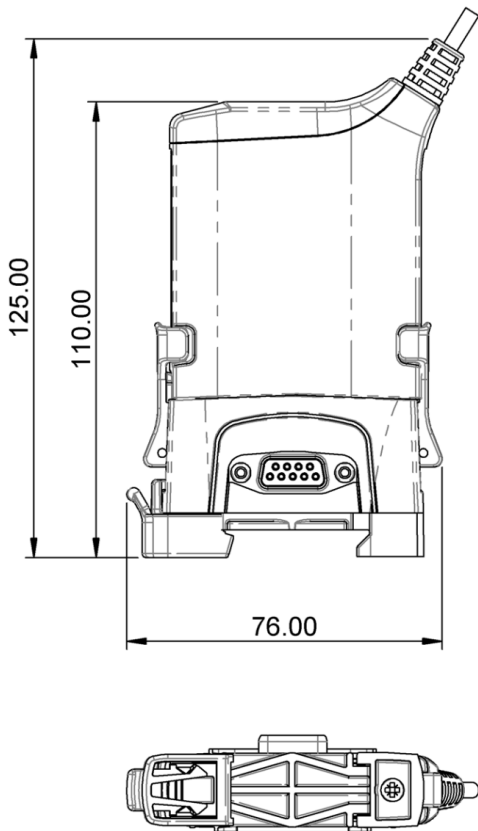
In this application a USBIM-Lite is connected to two of Solartron's Orbit Wireless Control Modules (WCM) as each WCM is capable of interfacing with 6 wireless Hand Tools this brings 12 hand tools into the Orbit Network

Technical Specification

Products	USBIM - Lite
Environmental	
Sealing	IP43 for module and TCON
Electronics Operating and Storage Temperature (°C)	0 to 60
EMC Emissions	EN61000-6-3
EMC Immunity	EN61000-6-2
Safety	EN61010:2010
ROSH	Fully ROSH Compliant
Vibration	10g up to 2kHz
Material	
Cable	PUR
Electronics Module	ABS
Electronics Interface	
Protocol	USB2 to Solartron Orbit3
Number of Orbit3 Modules/Probes (Note 1)	4
Data Rate (max) Baud	12 Mbps
Reading Rate	3906 readings per second
Power (no load)	5±0.25 VDC @ 0.25A typical

Note 1 : The USBIM-Lite can control up to 4 Solartron Orbit3 Modules. It can also power up to 4 modules depending on the individual module power requirements. The Orbit Suite - Network Power Calculator should be used to establish if the USBIM-Lite can power the chosen module without requiring an additional power supply (PSIM).

Dimensions



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