

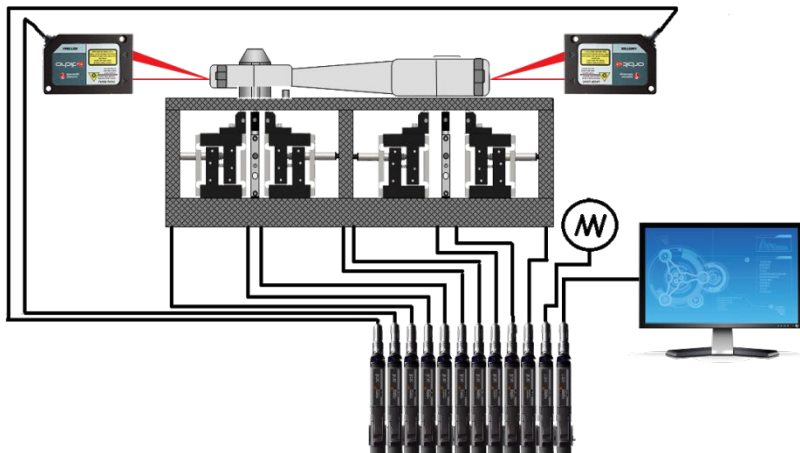
USBIM and USBIM-Lite Orbit 3 Interface Modules

Description

The USBIM enables the Orbit 3 Network to interface with a Controller PC USB port allowing Data to be transferred between the Orbit Network and a PC. Two options are available, the standard USBIM which can connect with up to 250 Orbit Modules and a lower cost USB-Lite small Orbit Digital Measurement Networks up to 4 modules where the user does not require the full power of the standard USBIM



Applications



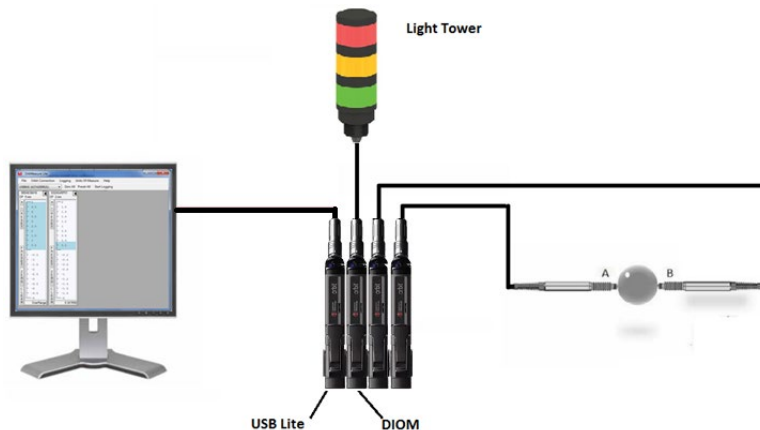
Solartron Flexure Contact Transducers and Non-Contact Laser Triangulation Transducers. Connected to controlling PC via USB Controller.

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Applications

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

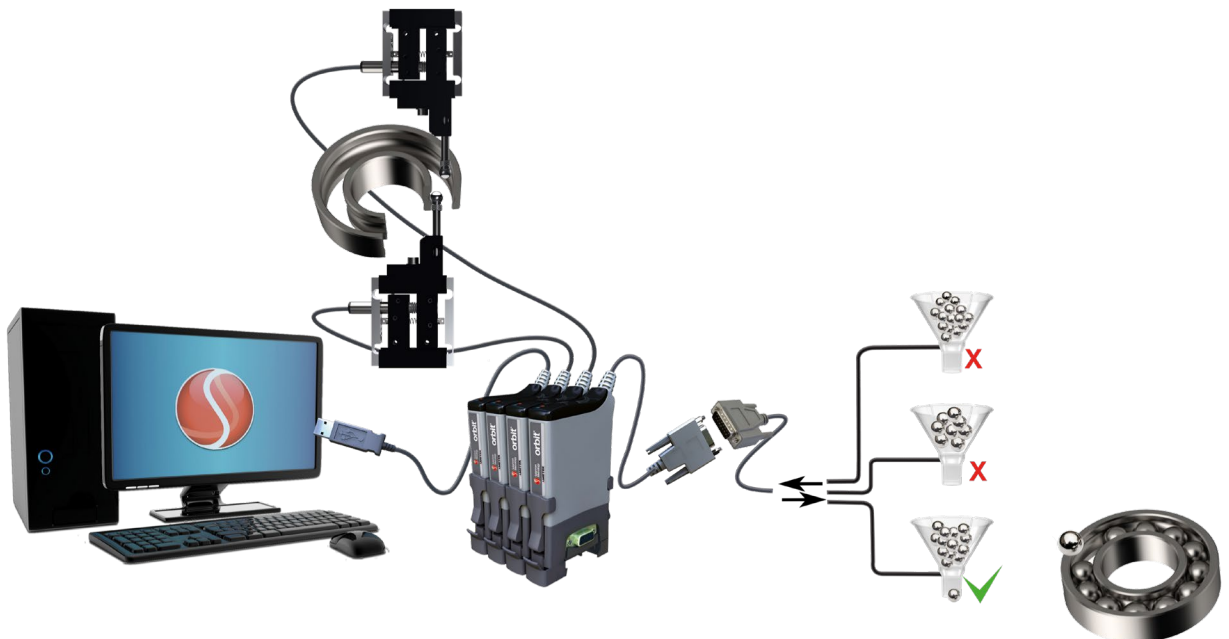


Benefits

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

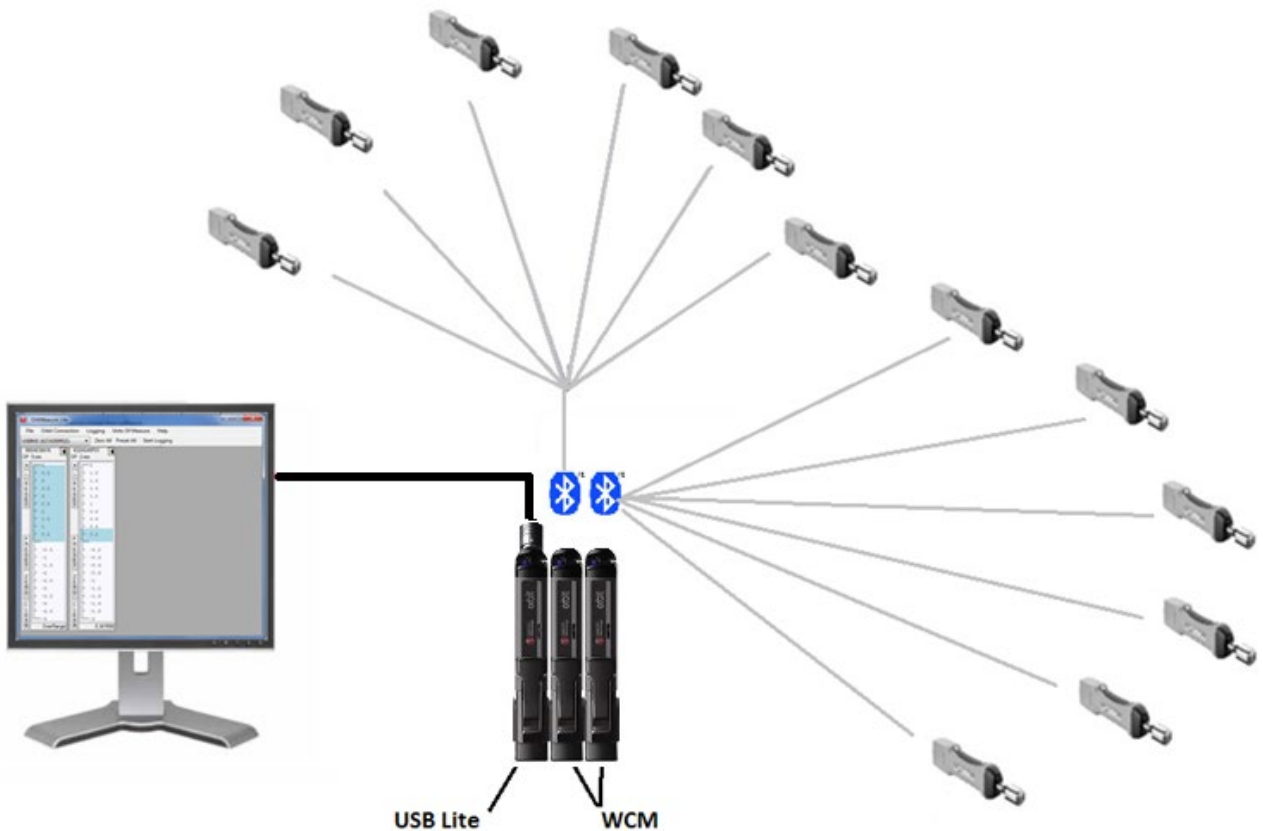
Applications: Bearings

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

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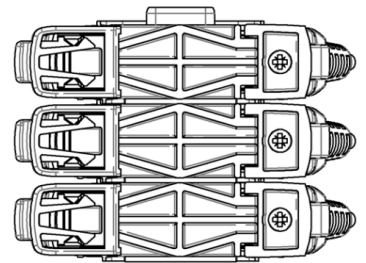
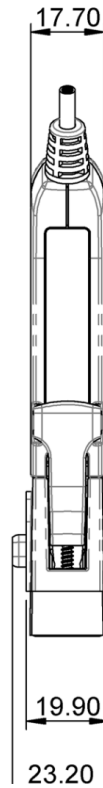
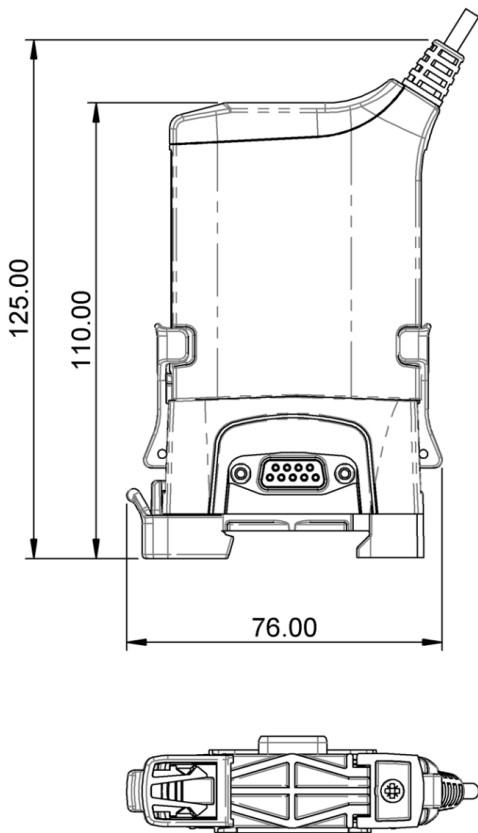
Technical Specification

Products	USBIM	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 (see Note 1)	250	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 can interface with up to 250 Solartron Orbit3 Modules, the USBIM-Lite can interface with up to 4 modules. Both versions 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).

For further technical information and how to use the USBIM and USBIM-Lite please refer to the Orbit System Manual 502990 which is available on the Solartron Metrology website.

Dimensions



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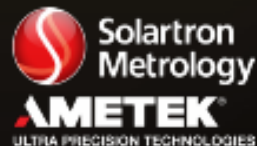
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In the laboratory, on the shop floor or in the field, Solartron Metrology's products provide precise linear measurements for quality control, test and measurement and machine control. Solartron Metrology is a world leader in the innovation, design and manufacture of precision digital and analogue dimensional LVDT gauging probes, displacement sensors, optical linear encoders and associated instrumentation.



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