

# Application Story

## Upgrade Air Gauging for data output

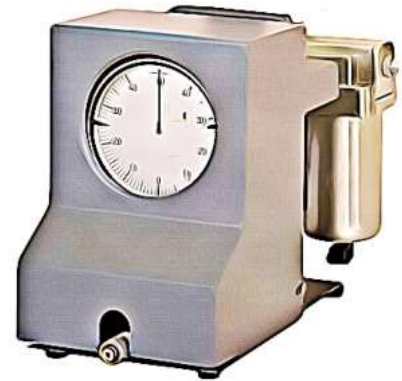
### The Challenge

In machining factories worldwide, bore measurement is often performed manually by air gauging tools and instruments. However, automotive suppliers have begun raising standards for gauge checks, requiring outputs to PC or a PLC for more automated solutions. But existing instrumentation has no more than I/O or RS232 connections, with cumbersome calibration procedures.

### The Solution

With Solartron's **Air Gauge Module (AGM)**, existing air gauge tooling can be connected into the Orbit® network and then easily output to a PC or PLC for data tracking. And thanks to a free software pack, Min/Max Mastering can be made in less than two minutes.

- **Output to PC:** With the AGM connected to Orbit®, connections can be made to any SPC package or data acquisition software.
- **Optional Free Software:** Customers can also opt for Orbit GCS, a software package that can set up an AGM and output to a spreadsheet for free. (Optional Formula and SPC upgrades available.)
- **PLC outputs:** Using the Protocol Interface Module, an AGM can also output to a PLC. Profinet®, Ethernet/IP®, EtherCAT®, and Modbus outputs are available.
- **Modular solution:** Orbit® can network anywhere from 2 to 200 AGM modules with one connection. They can also be stacked with contact probes or other 3<sup>rd</sup> party sensors.
- **Optional Calibration on AGM module:** With the AGM-A module, Min/Max calibration can be performed on the module keypad, if a monitor is not available.



*AGM-B Air Gauge Module*



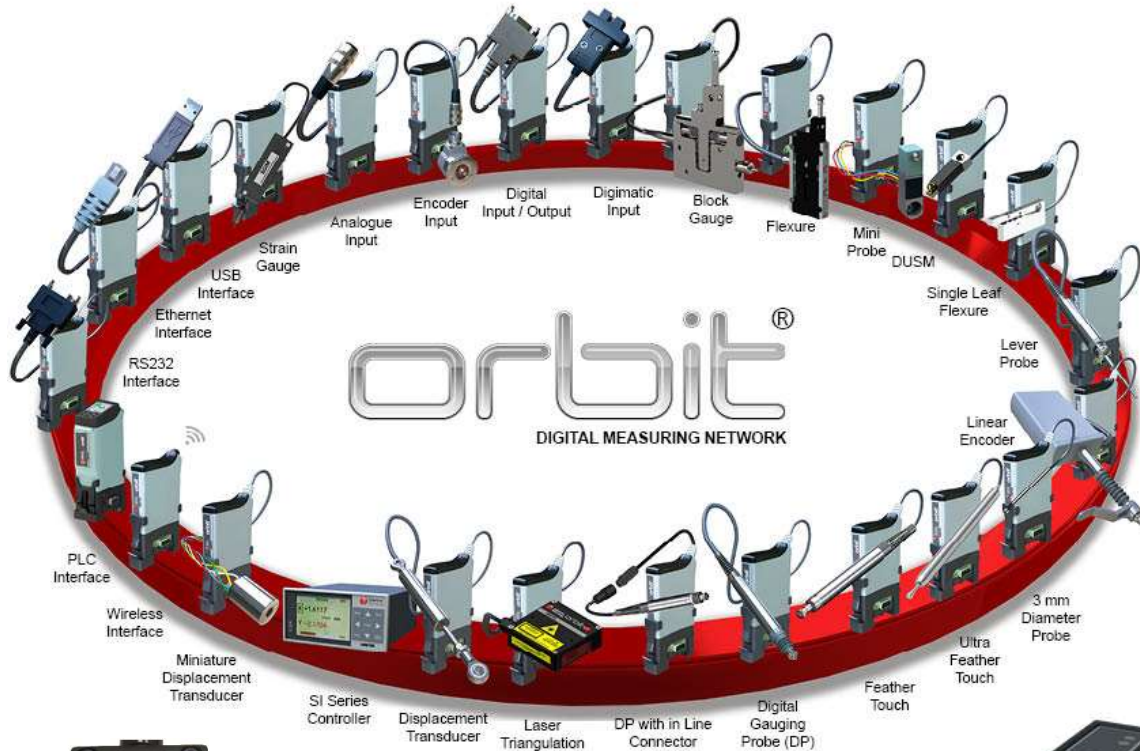
*Output to PC or PLC*



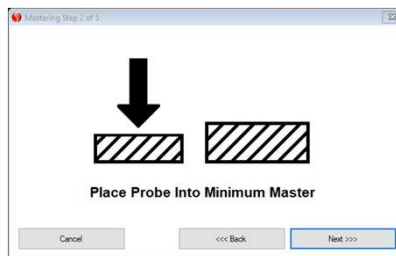
*Air Gauging (Center) with AGM connection on top. Photo courtesy of Arnold Gauge (West Chester County, OH, USA)*

## Orbit® – The Total Measurement System from Solartron Metrology

The Solartron Orbit® Digital Measurement System, provides a limitless set of measuring system solutions, with numerous different interfaces to computers and PLC's.



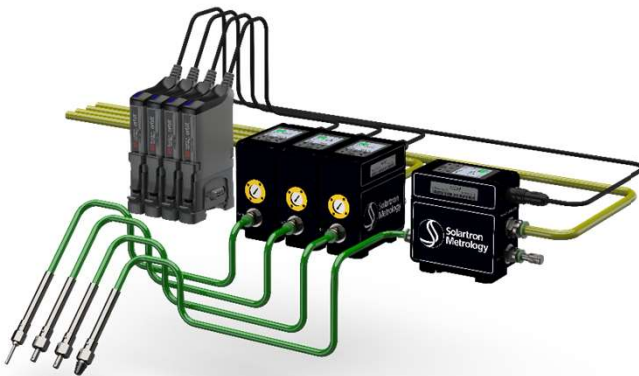
Type A Air Gauge Module



Free Mastering Software



Type-B Air Gauge Module



Each AGM-A Module comes with an Orbit PIE



Stack up to 20 AGM-B modules together with one Orbit PIE