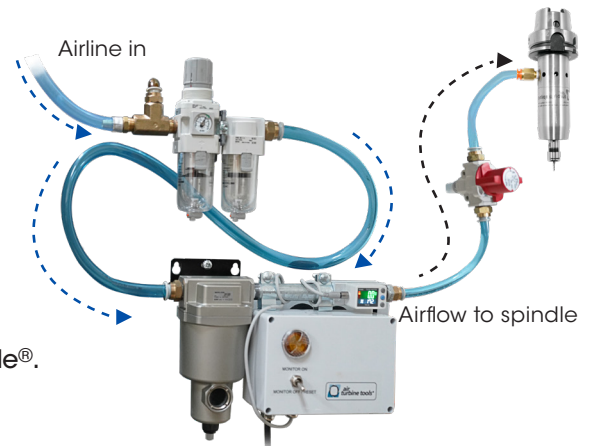


## 1. Pre-Installation

1. Ensure Air Supply is turned off before installing the Tool Breakage Alarm™ Monitor.  
*CAUTION: Air Supply starts Spindle Rotation*
2. Mount monitor and filter on your CNC.
3. Connect the airline to the filter supplied with the spindle to the airline from your compressor. From the filter connect the air line into the Tool Breakage Alarm™ Monitor inlet port.
4. From the System Monitor, connect the airline to your Air Turbine Spindle®.
5. **OPTIONAL:** Connect the alarm output port to your control and program for the Tool Breakage Alarm Monitor to stop your program.



System Monitor Airline Diagram

## 2. Initial Airline Set-Up

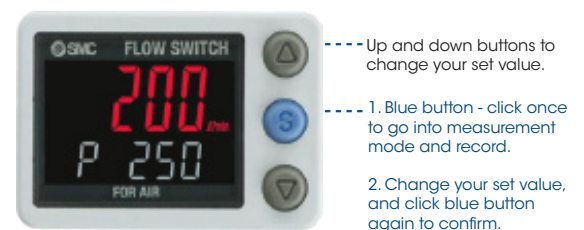
1. Ensure your air supply is adequate and set regulator at 90 PSI /6.2 Bar at the CFM, L/S specified flow rate for your Air Turbine Spindle®.
2. Ensure all hoses, couplings and connections have the minimum internal diameter specified for your spindle. Refer to user notes. (602/625 - 1/4" /6mm ID, 650/660 -3/8" /10mm ID)
3. Set your machine spindle control for zero spindle rotation and close the machine door securely.
4. Connect System Monitor power cord to 120 Volt outlet, confirm air supply on/off switch is in the 'off' position.



Filter-Regulator Set to 90 PSI /6.2 BAR

## 3. Record Baseline Air Consumption and Start Your Monitor

1. Turn on air. Record the baseline cubic feet per minute/liters per second air consumption running your spindle in idle for 5 minutes with no cutting load or until the CFM/ L/S flow is stable.
2. On the Flowswitch control, press the center blue button to start measurement mode to record air flow rate with no load.
3. Press the up and down buttons on the Flowswitch Control to change the top value to match the baseline number displayed below on the Control.
4. Press the blue button for the second time to record and fix your baseline.
5. Start your program on your CNC control and start cutting.
6. Flip the switch on the front of the System Monitor to the 'on' position.
7. If your tool breaks or your compressor malfunctions the system will activate the light and klaxon. If connected to your CNC control and programed, the System Monitor will stop your machine.



Flowswitch Control



System Monitor

**Questions? Call +1 561-994-0500 or email [ask@airturbinetools.com](mailto:ask@airturbinetools.com)**