



TRIBO.dsp U3800 is a multichannel particulate monitor using Auburn's proprietary *TRIBO.dsp*, *unified* DC/AC core technology for emissions or flow applications. Each unit is capable of connecting up to six remote probes. The U3800 has an intuitive industrial grade touch screen, displaying user selectable views, such as line chart; numerical; or bar chart views.

The U3800 can be used as a complete stand-alone system or integrated into existing plant data management systems using the digital communication protocol (Modbus TCP, Ethernet/IP). For a comprehensive bag leak detection system, multiple U3800 units can be managed by AUBURN.vision software.

- Unified DC and AC signal based processing algorithm, more stable and accurate than AC signal only based technology
- Immune to electromagnetic noises, suitable for harsh industrial environments
- Wide dynamic range digital frontend, 1 pA resolution (approximately 1mg/m³), 1.25E7 pA range standard; 0.1 pA resolution (approximately 0.1mg/m³), 1.25E6 pA range optional
- Continuous automatic zero baseline tracking, zero offset, zero drift circuitry, no periodic manual zero check
- Continuous self-checking probe moisture contamination and fouling
- Periodic automatic signal span check, meets ASTM standard
- 6 channels
- 3.5" active matrix touch screen display
- Multiple display options: numerical, bar chart, column chart, and line chart
- User configurable channel descriptions, engineering units, scaling, signal smoothing, alarm levels, and delays for each channel
- Real-time clock and local data logging on SD card, saves up to 50 years of data (1 minute average)
- One SPDT relay output for user programmable alarm output scheme
- Modbus RTU, Modbus TCP, Industrial Ethernet (Ethernet/IP) communication protocol, for easy integration to PLC, HMI/SCADA and plant automation systems
- Optional OPC driver available
- 100~260 VAC standard, 24 VDC and P.O.E. (Power over Ethernet) optional



Numerical View



Vertical View