



TE-WILBUR Low Volume FRM Sampler



The Tisch Environmental TE-Wilbur is the most advanced particulate collection system in the industry. The TE-Wilbur can be configured for TSP, PM10, PM2.5, PM1 as well as any other particulate separation device with a flow rate between 1-25 SLPM. Featuring modern, industrially hardened components paired with innovative design and state of the art manufacturing practices, the TE-Wilbur is the future of particulate collection. The TE-Wilbur is ideal for Environmental Monitoring, Fence Line Monitoring and Industrial Monitoring. The TE-Wilbur is designed to operate in any environment and is set up for quick and easy deployment. The TE-Wilbur exceeds all performance specifications set forth by the USEPA for low-volume particulate collection.

The TE-Wilbur user interface is a full-color 5.7" touchscreen which utilizes intuitive control. The touchscreen was developed specifically to satisfy the recommendations of instrumentation operators. The TE-Wilbur features easy to access menus, step by step calibration and on screen status alerts. The TEWilbur control is provided by our industrialized programmable logic controller (PLC) whose programming is USB downloadable and MODBUS compatible. Volumetric flow is controlled through an integrated mass flow meter and onboard ambient temperature and pressure sensors. Filter set-up and exchange is achieved through the Tisch-designed filter exchange mechanism which allows easy one handed operation. In addition, the filter exchange mechanism does not require continual adjustment to seal your filter against leaks. Data can be retrieved through any MODBUS compatible data acquisition system or can be easily downloaded and transported with your filter on a USB drive

- Exceeds USEPA 40 cfr part 53, 50 appendix L
- 5.7 inch color touch screen with intuitive control
- Multi-language Support
- Data retrieval via USB and MODBUS
- Preprogrammed for USEPA sample schedules
- Integrated Uninterrupted power supply
- Low maintenance / cost to operate
- Brushless DC pump
- Industrial PLC control
- Integrated step by step calibration
- No adjustment Tisch filter exchange mechanism
- Manufactured in a ISO 9001 facility
- Made in the USA





General Specifications

Particulate Size:

TSP, PM10, PM2.5, PM1, and any size selectable inlet which operates between 1-25 slpm

Sampling Interval:

Preprogrammed USEPA 1 in 3, 1 in 6, 1 in 12, 24hr sampling User defined sampling intervals Meteorological sampling triggers

Environmental Specifications

Operating Temperature:

-25°C to 50°C

Ambient Temperature Sensor:

Sensor: PT100 RTD Accuracy: ±0.15°C Resolution: 0.01°C

Filter Temperature Sensor:

Sensor: PT100 RTD Accuracy: ±0.15°C Resolution: 0.01°C

Barometric Pressure Sensor:

Range: 450 mmHg to 1238 mmHg

Accuracy: ± 10.00 mmHg Resolution: 0.75 mmHg

Flow Control Specification:

Brushless DC Pump:

Range: 0-25 Liters per minute Accuracy: ±2% or less at 16.67 LPM

Repeatability: ±1% of full scale (0.25 LPM)

Resolution: 0.01 LPM

Electrical Specifications

Power Requirements:

120V / 240 V; 50/60 Hz

Power Consumption:

40 Watt (peak)

Optional:

Solar, wind, or enhanced battery operation

Barometric Pressure Sensor:

Range: 450 mmHg to 1238 mmHg

Accuracy: ±10.00 mmHg Resolution: 0.75 mmHg

Applications

Regulatory Monitoring:

USEPA:

Ambient Particulate Reference Method

Sampling

TSP, PM10, PM2.5, PM1

Any Size Selectable Inlet Which Operates Between 1-25 SLPM

Remote Monitoring

Dust Control Monitoring

Dust Control Monitoring:

Site Development Bulk Transport Employee Safety

Fence Line Monitoring

Communication Specifications

Included I/O:

MODBUS: for gathering data into a data acquisition

USB: for data download of runtime data and history

data

RJ45 Ethernet: full Ethernet remote control, samples can be monitored and setup from a remote location using any internet browser

Physical Specifications

Weight:

48lbs / 21.8kg without stand

Dimensions:

20"W x 20"H x 10"D 508mm x 508mm x 254mm

