TEL AFA-1000 Room Pressure Monitors and Controllers

TEL room pressure monitors and controls are a component of variable air volume fume hood systems, but also can be used in facilities required to meet laboratory and cleanroom design standards such as those set forth in USP 797.

- TEL equipment can be used in a variety of configurations, including:
  - Individual HEPA filter compensation with inline damper
  - Individual HEPA filter compensation with blower variable speed control
  - Pressure monitor with AHU HEPA automatic compensation
  - Pressure controller with AHU HEPA automatic compensation
  - Multiple fume hoods on common exhaust with on-off damper control (manual) or two-position damper control via sash switch.

Product Specifications — Pressure Monitor

Display range: User configurable among the following options:
- +/- 0.10 ins Wg (+/- 25 Pa)
- +/- 0.20 ins Wg (+/- 50 Pa)
- 0-0.4 ins Wg (0-100 Pa)
- 0-0.8 ins Wg (0-200 Pa)
- Ins Wg (0-250 Pa)
- 0-2.0 ins Wg (0-500 Pa)
- Ins Wg (0-1,000 Pa)

Alarm range: +/- 1 to 4 ins Wg (0-1000 Pa) depending on configured range

Signal input: From pre-calibrated Titan transducer to configured range.

Field setup: Zero-point calibration only.

Accuracy: Display resolution: 0.004 ins Wg (1 Pa); transducer: +/- 1% FS

Alarm delays: User definable (0 to 60 seconds).

Relay output: 4 (three on board, four on optional plug-in relay interface)

Analog output: 0-10V, directly proportional to pressure (optional).

Relay input: 3.

Communications Port: RS485 (can be connected via Serial interface to BMS or to computer using TEL software)

Night setback: Yes.

External alarm indication: Yes.

Power requirement: Input: 120VAC, 60Hz; output:15VDC, 500ma.

Units: English and metric (user selectable).

Display: Analog bar graph or fault timeline; LEDs: red, alarm; yellow, caution; green, normal; Digital display of pressure reading (can be turned off).

Alarm indication: Red LED and audible alarm.

Horn silence: Yes, temporary or permanent/automatic, depending on type of alarm or external input.

Mounting: Flush or semi-flush.

Operating temperature: 55 to 86°F (13 to 30°C).

Storage temperature: -40 to 150°F (-40 to 65°C).

Dimensions: Instrument Case: 5.71” H x 3.46” W x 1.38” D (148mm H x 88mm W x 35mm D).

Agency listings: CE.
Optional remote relay interface
Relay output: 3 volt free change over contacts (120V 5A AC1)
Relay input: 3
Connection: 14-way IDC Connector (Standard 2M length).
Enclosure material: Polystyrene.
Enclosure dimensions: 5.12” x 5.12” x 2.95” (130mm x 130mm x 75 mm).
Agency listings: VDE