



## Calibration Requirements And Service

NFPA 2001 Requires calibration of door fan systems as follows:

"C-2.2.1.4 The accuracy of airflow measurement should be +/-5% of the measured flow rate."

"C-2.2.1.5 The room pressure gauge should be capable of measuring pressure differences from 0 Pa to at least 50 Pa. It should have an accuracy of +/- 1 Pa and divisions of 2 Pa or less. Inclined oil-filled manometers are considered to be traceable to a primary standard and need not be calibrated. All other pressure-measurement apparatus (for example, electronic transducer or magnehelic) should be calibrated at least yearly."

"C-2.2.1.6 Door fan systems should be checked for calibration every 5 years under controlled conditions, and a certificate should be available for inspection at all integrity tests. The calibration should be performed according to manufacture's specifications.

The certificate should include the following:


- (1) Description of calibration facility and responsible technician.
- (2) Date of calibration and serial number of door fan.
- (3) Room pressure gauge error estimates at 8, 10, 12, 15, 20 and 40 PA measured by both ascending and descending pressures (minimum).
- (4) Fan calibration at a minimum of 3 leakage areas (approximate): 0.5, 0.25, and 0.05 sq m measured at a pressure of 10 Pa." (1)

Calibration Service:

All calibration of the gauge and fan is done by the manufacture The Energy Conservatory in Minneapolis, MN. Please see the Calibration / Service form for instructions.

Gauge Calibration Service:

Calibration of digital pressure gauge, Models DG-3 and DG-700 against traceable standard and general check out of gauge. Parts and repairs are not included and will be billed separately if needed. A calibration seal will be affixed to gauge. (Required yearly per C-2.2.1.5) Includes return shipping via UPS ground.

\$ 100.00 (2) 

FST Fan Calibration Service:

Calibration of fan. Parts and labor for repair if necessary are not included and will be billed separately if needed. A calibration seal will be affixed to gauge and full calibration certificate will be issued. (Required every five years per C-2.2.1.6) (Return shipping not included)

\$ 250.00 (2)

Please use the attached service form from The Energy Conservatory

- (1) NFPA 2001 2004 page 2004-94
- (2) As of November 2014, please call for current charges



Equipment Service Form: Calibration and Repair

TEC Customer Number (if known) \_\_\_\_\_ Date \_\_\_\_\_

Contact Name \_\_\_\_\_

Company \_\_\_\_\_

Billing Address  Address change Shipping Address (If different from billing)

\_\_\_\_\_

\_\_\_\_\_

Office Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

Fax \_\_\_\_\_ Email \_\_\_\_\_

Where was your equipment purchased? Fire Safety Technology

Return shipping: All equipment will be shipped back using UPS Ground Service (UPS Standard to Canada) unless indicated below. If you need expedited return shipping, check the appropriate box below. (Note: Additional shipping charges will be added to the invoice.)

- U.S.  Ground  3-day Select  2nd Day Air  Next Day Air
Canada  Standard  Worldwide Expedited  Worldwide Saver

Please package your equipment carefully to eliminate shipping damage. If shipping a blower door fan, we recommend using an original shipping box, along with the original packing (if possible). Please do not use packing peanuts or shredded paper.

Ship all equipment, along with this completed form, to: The Energy Conservatory
Attn: Calibration/Repair
2801 21st Ave S, Suite 160
Minneapolis, MN 55407

Payment Information

- Send invoice: Use purchase order number \_\_\_\_\_  Check enclosed
(Invoice option only available if customer has account established with Net 30 Day terms.)
 Credit Card \_\_\_\_\_ Expiration \_\_\_\_\_

Repair Policy
In order to expedite return of equipment, TEC assumes that for all items sent in for repair (i.e. Repair box checked on second page), you are authorizing repairs of up to \$200 per item, without contacting you for approval. All digital pressure gauges sent in for repair will be recalibrated for quality assurance purposes (additional calibration fee applies).

Customers in Canada
Non-warranty repairs are dutiable and GST applies to the value of the repair only. Brokerage fees apply to shipments sent UPS Standard to Canada.



**Repair Policy**

By checking the Repair box below, you are authorizing TEC to make repairs of up to \$200 per item, without contacting you for approval. All digital pressure gauges sent in for repair will be recalibrated for quality assurance purposes (additional calibration fee applies).

Repairs authorized on **ALL** equipment

**Product(s) being returned** \_\_\_\_\_ **Quantity** \_\_\_\_\_

**Serial number** (if applicable) \_\_\_\_\_

**Reason for return**  Calibration

**If repair, please describe problems or symptoms** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Product(s) being returned** \_\_\_\_\_ **Quantity** \_\_\_\_\_

**Serial number** (if applicable) \_\_\_\_\_

**Reason for return**  Calibration

**If repair, please describe problems or symptoms** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Product(s) being returned** \_\_\_\_\_ **Quantity** \_\_\_\_\_

**Serial number** (if applicable) \_\_\_\_\_

**Reason for return**  Calibration

**If repair, please describe problems or symptoms** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Additional Comments**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_