

ENERVEX

ADC150 FAN CONTROL

3912050 06.17

Product Information

Use

The ENERVEX ADC150 is a Modulating Fan Control used with up to 2 appliances to monitor and maintain a constant draft or pressure in a chimney or duct. The ADC150 can be used with models RS, RSHT, and GSV fans. It can control the fan speed directly or via a Variable Frequency Drive (VFD, sold separately).

The ADC150 is typically used to control the draft of a gas-fired, sealed fireplace or water heaters.

Description

The ADC150 monitors the draft in a chimney system via a connection to a pressure transducer (XTP) attached to the chimney, and maintains the draft by modulating the fan speed. It provides a 10-120V AC power to single phase fans and 0-10V DC control signal to control 3-phase fans via a variable frequency drive.

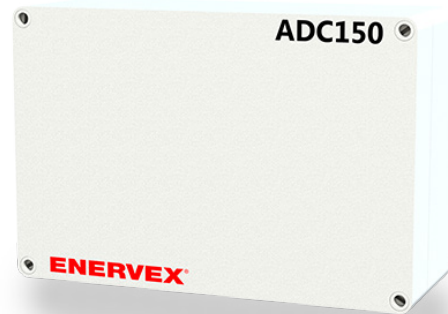
The control has an integrated safety system that assures the heating appliance(s) is shut down in case of insufficient draft after 15-180 seconds (user adjustable). The ADC150 has an integrated damper relay that works with ENERVEX MFD (Mechanical Fireplace Damper) to automatically open the damper prior to fan initialization and close the damper after the appliance shuts down. End-switches in the damper actuator wired to the ADC150 ensure the damper must be fully open prior to allowing the appliance to operate. The control also features a post purge function (3 min) to evacuate the chimney system of residual flue gases after the appliance shuts down.

Material

The enclosure is made of NEMA 1 rated ABS plastic.

Standard Equipment

- ADC150 Control Box
- XTP Pressure Transducer
- Stack Probe
- 6' Silicone Tubing



Listings

The ADC150 Fan Control is ETL Listed in the U.S. and Canada:

- UL 508 Standard for Industrial Control Equipment (17th Ed.)
- CSA C22.2 No. 14-05 - Standard for Industrial Control Equipment

Warranty

2-Year Factory Warranty. Complete warranty conditions are available from ENERVEX Inc.



Intertek

Specifications are subject to change without notice.

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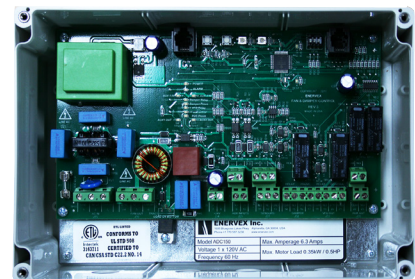
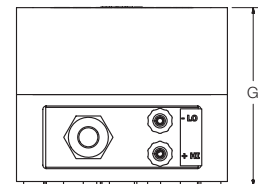
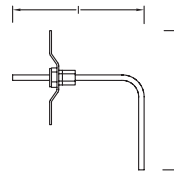
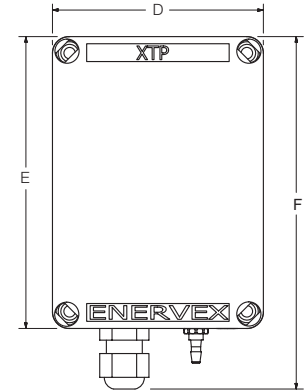
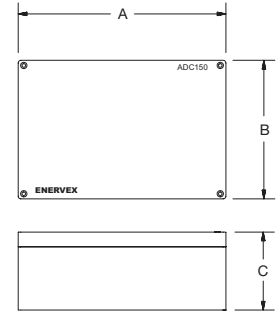
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Specifications

| ADC150 Control | | |
|-----------------------|-----------|------------------------|
| Power Supply | V | 1x120VAC |
| Amperage | A | 7.0 |
| Operating Temperature | °F / °C | -4 to 122 / -20 to 50 |
| Range of Operation | inWC / PA | 0.05-0.55 / 12.5-137.5 |
| Tolerance | inWC / PA | 0.01/3 +/-10% |
| Control signal | mA | Max. 10 |
| Control relay | | Max. 120 |
| Output | VAC | 10-120 |
| | VDC | 0-10 |
| Dimensions | A in / mm | 9.6 / 244 |
| | B in / mm | 6.3 / 160 |
| | C in / mm | 3.5 / 90 |
| Weight | lbs / kg | 2.6 / 1.2 |
| EMC Standard | Emission | EN 50 081-1 |
| | Immunity | EN 50 082-2 |

| XTP Sensor | | |
|-----------------------|-----------|----------------------|
| Power Supply | VDC | 12-36 |
| Amperage | mA | <20 |
| Output | VDC | 0-10 |
| Operating Temperature | °F / °C | 0 to 160 / -18 to 71 |
| Accuracy | inWC / PA | +/-0.08% |
| Dimensions | D in / mm | 3.70 / 94 |
| | E in / mm | 5.12 / 130 |
| | F in / mm | 6.18 / 157 |
| | G in / mm | 3.13 / 80 |
| Weight | lbs / kg | .6 / .3 |
| Stack Probe | | |
| Dimensions | H in / mm | 4.25 / 108 |
| | I in / mm | 3.50 / 89 |



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