



DPS-300

Digital Pressure Control System



Features

- Automatic exhaust damper control with manual override
- Precalibrated
- Dual setpoint capability
- Available in stand-alone table top enclosure or for panel mounting

Benefits

- Easy installation
- Controls excess air in dryer applications and furnace pressure in furnace applications
- Provides finer level of control for maximum fuel savings
- Operates a wide variety of exhaust dampers



The Hauck Digital Pressure Control System (DPS-300) continuously monitors and automatically controls dryer draft or furnace pressure by modulating a mechanical exhaust damper. The DPS-300 is an electronic pressure control instrument, which in conjunction with an exhaust damper and a transmitter will result in maximum fuel savings and productivity. The system can be operated in either automatic or manual mode, and is preprogrammed for easy installation.

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Combustion Excellence Since 1888

DPS300B-1



Hauck Manufacturing Company

DPS-300

DIGITAL PRESSURE CONTROL SYSTEM



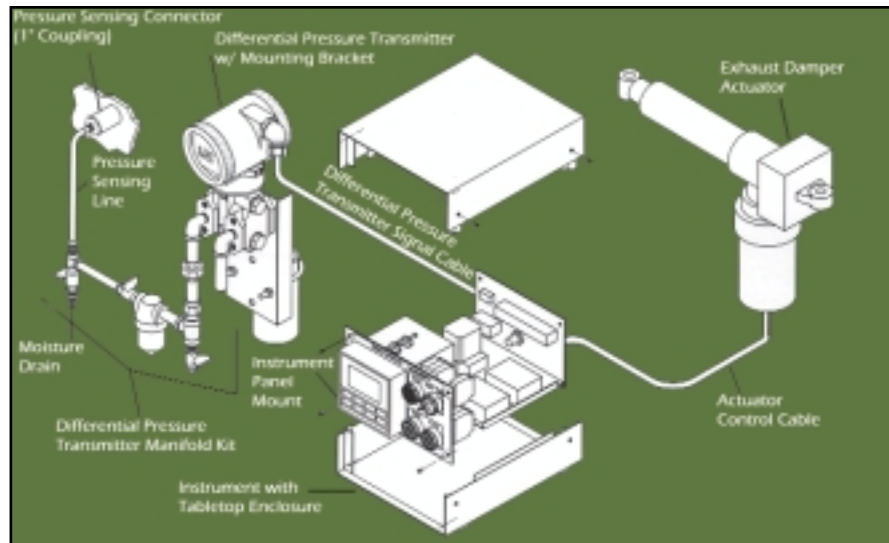
ADVANTAGES OF THE DPS-300

Precalibrated for Easy
Installation

Automatic Exhaust Damper
Control

Dual Setpoint Capability

Controls Dryer Draft or Furnace
Pressure Air for Maximum Fuel
Savings and Productivity



Typical DPS System Layout

The Hauck Digital Pressure Control System monitors and automatically controls dryer suction or furnace pressure by modulating a mechanical exhaust damper. For dryer applications, it is important to control the dryer suction because it directly affects the amount of air being drawn into the dryer. If the suction is too high, excess air is drawn in, reducing plant efficiency. If the suction is too low, there will not be enough air to burn the fuel and, again, the plant efficiency will decrease. Dryer suction changes continuously with production rate, moisture content, and burner firing rate. Fuel usage is substantially reduced and overall drying efficiency is improved with DPS control - without reducing production rate or plant capacity.

For furnace applications, it is important to maintain a positive furnace pressure to minimize pulling excess air back into the furnace which can reduce efficiency, chill the load, or produce an undesirable oxidizing atmosphere.

The main components of the DPS-300 are an electronic pressure control instrument, an exhaust damper actuator and a transmitter. The transmitter, installed to measure dryer pressure through a pressure tap, sends pressure information to the control instrument where it is compared to a preset setpoint. The control instrument automatically modulates the damper actuator, correcting for any transmitter measured change in pressure.

The DPS-300 has many features not available in other damper control systems. The system can be operated in either automatic or manual mode. The 'hold' cycle is used to drive the damper motor to a hold position (usually closed) based on an external signal from the control panel limit circuit. For dryer applications, this is especially useful during start-up when an open damper could overload an exhaust fan.

The system is preprogrammed for easy installation. No multimeter or test equipment is required for normal installation, adjustment or operation. A simple two-wire cable connects the transmitter to the controller unit.

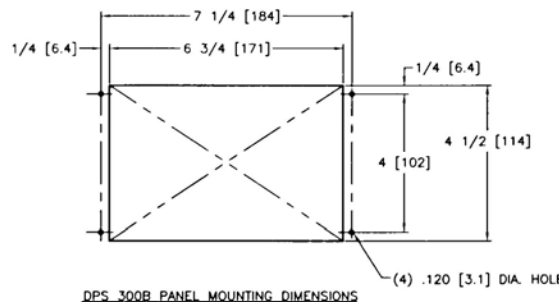
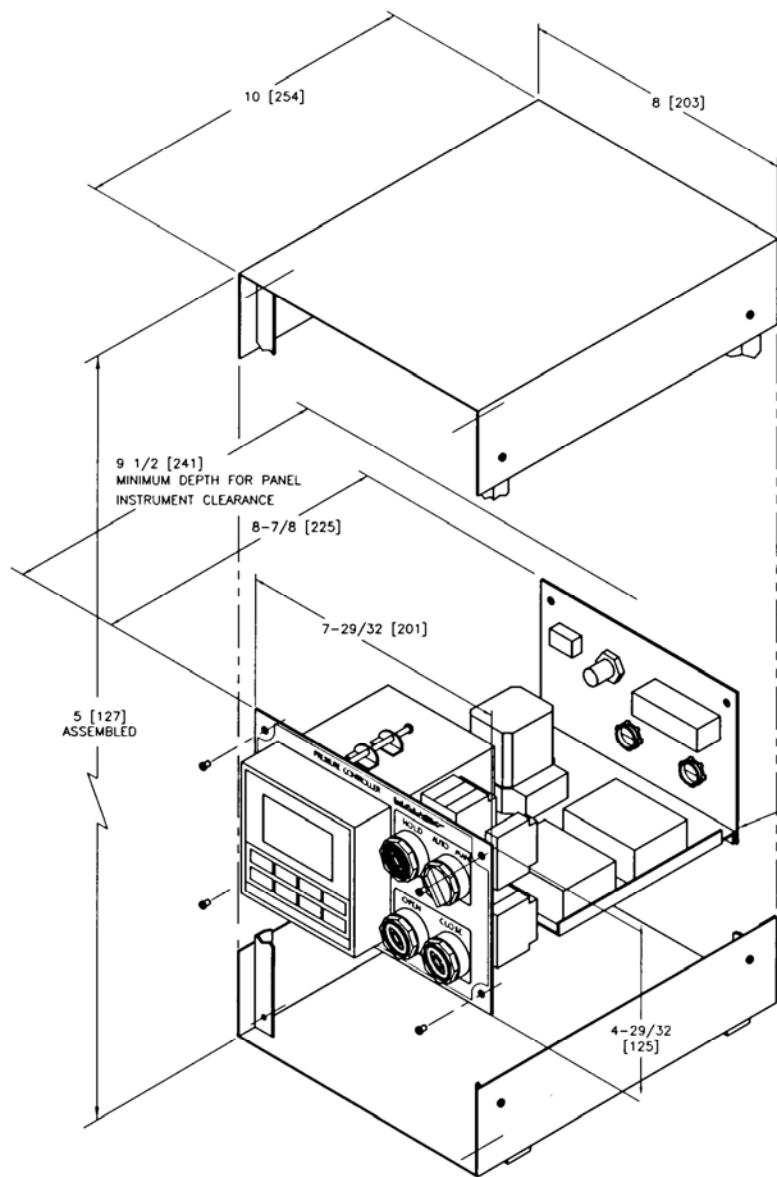
The system normally consists of:

- (1) DPS 300 instrument
- (2) transmitter
- (3) manifold kit
- (4) transmitter-to-instrument cable
- (5) damper actuator-to-controller cable
- (6) exhaust damper actuator.



DIMENSIONS

DIGITAL PRESSURE CONTROL SYSTEM DPS-300B SERIES



DPS 300B INSTRUMENT
PANEL MOUNT
OR
DPS 300B INSTRUMENT
W/TABLETOP ENCLOSURE

Y7441
(NOT TO SCALE)

NOTE:
1.DIMENSIONS ARE IN INCHES [mm].

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.