

UniControl Inc.

EU Declaration of Conformity (DoC)

We:

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The following Declaration of Conformity is issued under our sole responsibility and belongs to the following product:

Apparatus model/Product; XNS2-xxxx-xx
Type; Pressure Sensing Device
Batch; NA
Serial number; NA

Object of the declaration;

See below for identification of the NS2 and the DNS2



Series NS2™

OEM AIR PRESSURE SENSING SWITCHES WITH FIXED SET POINT

APPLICATION

Series NS2™ Air Flow Pressure Sensing Switches are designed with sturdy, contaminant-free construction, to provide low cost, high accuracy and reliability. NS2 switches offer a narrow switching differential and low set point tolerance over a wide operating temperature and set point range. They can be used to sense positive, negative or differential air pressure. Factory-calibrated set points are available from 0.05" to 10.0" w.c.

The glass-filled polycarbonate body of the switch provides a high degree of stability and accommodates many sample line connector options. The high and low pressure ports are color-coded for ease of identification. Part, bracket, and terminal orientations can be specified. The integral snap-acting switch mechanism (patent pending) is available in SPNO, SPNC, and SPDT terminal configurations.

An optional biased hole is available, as well as numerous standard and custom mounting brackets. Please consult Cleveland Controls about the many custom features we offer.

GENERAL DESCRIPTION & OPERATION

The glass-filled polycarbonate housing contains a sensing diaphragm and includes an integral snap-acting switch. Sample line connectors are located on either or both sides of the diaphragm to accept air sample connections.

The electrical connection consists of male 90° quick-connect terminals. The snap action switch can be actuated by a pressure or vacuum air flow, or by a pressure or vacuum differential.



MOUNTING

Various mounting brackets are available. Figure 1 shows two typical styles. Select a mounting location free from vibration. Mount with the diaphragm vertical, or at a custom angle. Specify the mounting position when ordering. Avoid mounting with the sample line connections directed upward.

ELECTRICAL CONNECTIONS

The snap switch has 90° male quick connect terminals in 1/4" (standard) or 3/16" (optional) sizes. Before pressure is applied to the diaphragm, the switch contacts will be in the deactivated position as shown in Figure 2.

AIR SAMPLING CONNECTION

Series NS2 switches are available with many different types of sample line connections that accept a wide range of flexible and rigid sample line tubing. See Figure 3.

AIR SAMPLING METHOD

The High or Positive Inlet (P1) is black and the Low or Negative Inlet (P2) is gray. Connect the sample lines as follows:

Positive Pressure Only: Connect the sample line to P1; P2 remains open to the atmosphere.

Negative Pressure Only: Connect the sample line to P2; P1 remains open to the atmosphere.

Two Negative Samples: Connect higher negative sample to P2; lower sample to P1.

Two Positive Samples: Connect higher positive sample to P1; lower sample to P2.

One Positive and One Negative: Connect positive sample to P1; connect negative sample to P2.



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Bulletin 1-TNS2-11



Cleveland Controls
Division of UniControl Inc.

Series DNS2™

OEM DUAL SET POINT AIR PRESSURE SENSING SWITCHES

- Ideal for 2-stage furnace applications
- Contaminant-free construction
- High accuracy and reliability.
- Sturdy, compact, low cost



APPLICATION

Series DNS2™ Air Flow Pressure Sensing Switches are the best solution for applications that require dual set points. In addition, DNS2™ switches have a narrow switching differential, and low set point tolerance over a wide operating temperature and set point range. Factory-calibrated and sealed set points are available from 0.05" to 10.0" wc. DNS2™ switches can be used to sense positive, negative or differential air pressure. Typically, DNS2™ switches are applied to two-stage furnaces where high fire and low fire set points are required.

DNS2™ Switches are essentially two separate NS2™ switches joined together. Two configurations are available:

- Interconnected models have a single inlet so that only one pressure/vacuum connection needs to be made. The cavities of the two switch pans are joined as shown in Figure 1.
- Independent models consist of two completely separate switches joined externally to provide the convenience of a single compact mount. Use these in any situation where two switches are needed. See Figure 2.

DNS2™ switches can be provided with any of the options and configurations available in Cleveland Controls Series NS2™ switches. The glass-filled polycarbonate

body of the switch provides a high degree of stability and accommodates many sample line connector options. The pressure ports are color-coded and labeled for ease of identification: High (P1), Positive, is black; Low (P2), Negative, is gray. Port, bracket, and terminal orientations can be specified. An optional bleed hole can be provided.

The integral snap-acting switch mechanism (patent pending) is available in SPNO, SPNC, and SPDT terminal configurations.

All NS2™ accessories are also available, including numerous standard and custom mounting brackets. Please consult Cleveland Controls about the many custom features we offer.

GENERAL DESCRIPTION & OPERATION

Each of the two glass-filled polycarbonate housings contains a sensing diaphragm and an integral snap-acting switch. One or two

sample line connectors are located on either or both sides of the diaphragm to accept air sample connections.

The snap action switch can be actuated by a pressure or vacuum air flow, or by a pressure or vacuum differential.

MOUNTING

Custom brackets specific to an OEM application are commonly specified for the DNS2™ switch. In all cases, regardless of the type of mounting, install the DNS2™ in a location that is free from vibration. Do not mount with the sample line connections directed upward. Mount with the diaphragm vertical, or at a custom angle. If the mounting position is not vertical, please specify it when placing an order to ensure precise calibration.

ELECTRICAL CONNECTIONS

The snap switch has 90° male quick connect terminals in 1/4" (standard) or 3/16" (optional) sizes.



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Bulletin LT-DNS2-00

Object of the declaration listed above is in conformity to:

Directive on appliance burning gaseous fuels (2009/142/EC)
Regulation (EU) 2016/426
The compliance is based on examination to EN1854-2010
The products have been approved for all EU and EFTA countries

Notified body;

Name of notified body; KIWA (0063) EC Type Examination Certificate
Reference number; 96158

Signed for and on behalf of:

UniControl Inc
1111 Brookpark Rd
Cleveland Ohio 44109 USA

December /11/2017

Frank Lyzen
Engineering /QA Mgr



Place of issue;

Date of issue;

Name, function, signature