AIR FLOW METER

[TYPE : NXG_STK_AFM]

Technical Data

Features:

Measuring Range : From 0 to 30 m/s in 0 to 50^0 C, temp range.
Power Supply : 24 Vac / Vdc.
Output : 0 to 20mA.
Units of Measurements : m/s.
Response time : 1/e(63%) 2s.
Resolution : 0.01 m/s
Type of fluid : Air or nautral gases.

Air Velocity Transducer (NXG_AFM): Air Velocity Transducer used is a standard product which measures airflow in meters / sec. Anemometers have been traditionally employed for air flow measuring in industrial ducts. This cumbersome task requires performing a traverse of the opening, measuring and manually recording the velocity at numerous points, calculating the mean velocity, and then multiplying the mean velocity by the cross sectional area of the duct or opening to obtain the total volumetric flowrate measurement in cubic meter per minute. With the newest microprocessor – based anemometers, up to a thousand data points can be stored in the memory for mean velocity calculation. Some units can even multiply the mean velocity by cross-sectional area to give the readout in CFM. These capabilities provide tremendous new convenience for the HVAC professional. It measures flow rate in meters / sec.

Output / Power Supply : Active sensor 0-10V or 4-20 mA(alim. 24 Vac/ Vdc +/- 10% wires).
Common mode voltage <30VAC.
Maximum load : 500 ohms (4-20mA) / minimum load : 1 K ohms (0-10V).

Consumption : 3 VA(0-10V) or 3 VA (4-20mA).

European Directives : 2004/108/EC EMC; 2006/95/EC Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE.

Electrical Connection : Screw terminal block for cables from 0.05 to 0.25 mm^2 or form 30 to 14 AWG carried out according to the code of good practice.

PC Communication : USB-mini DIN cable.

Environment : Air and neutral gases.

Conditions of use (%C%RH/m) From 0 to $+50^0$ C, in non-condensing condition.

Storage tempearature : From -10^0 to $+70^0$ C.

Applications: Measures air velocity in meters / sec of stack discharge / out flow and it is part of the Stack Activity Monitoring System.

Head of the Dept.

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Approved By