



NEELKANTH INSTRUMENT & CONTROL

One Stop Solution for all kind of Instrumentation and Electro-Mechanical Solution

Thermal Mass Flow Meter MODEL: NIC OG5



Work/ Office: Sr. No. 197, Shastri Chowk, Alandi Road,
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FEATURES:

- Measuring the mass flow or volume flow of gas/air
- Do not need to do temperature and pressure compensation.
- Wide range: 0.5m/s to 40m/s for gas.
- Good Vibration Resistance.
- Temperature: -20 to 80° C / Pressure – Std. 16 bar (Available up to 50 bar)
- Accuracy: +/- 2% of reading
- Remote Display (Panel or Field Mounted) for Flow + Totalizer
- Easy installation can realize hot-tap installation and maintenance.
- Dual power (AC220V+DC24V) available.
- Insertion with anti-flush-out design for high pressure, more safety

Description:

The thermal mass meter measures Gas/Air flow based upon the concept of convective Heat Transfer. Either in-line flow bodies or insertion-style probes of the meter support two sensors that interface with the gas being measured. The sensors are RTD's, consisting of extremely durable reference-grade platinum.

Windings clad in a protective 316 SS or Hastelloy C enclosure. One of the RTD is heated by an integrated circuit and functions as the flow sensor, while a Second RTD acts as the reference sensor, and determines the Gas/Air temp. As media flows by the heated sensor, flowing gas molecules transport heat Away from the sensor and as a result, the sensor cools and the energy is lost. The circuit balance is disrupted, and the temperature difference ΔT between the heated RTD and the reference sensor has been altered. Within a second, the circuit restores the lost energy by heating the flow sensor, to adjust the overheat temperature. The electrical power required to sustain this overheat denotes the flow signal.

ORDERING INFORMATION

Model – NIC OG 5-25-2-1-2-1-2

Line Size: DN- 25, DN 40, DN 50, DN80, DN 100, DN 150, DN200

Type:

- 1 – Insertion
- 2 – Flange
- 3 – Thread

Output:

- 1- 4 to 20mA
- 2- 0 to 10v DC
- 3- 0 to 5v DC

Communication:

- 1 – RS485 MODBUS RTU
- 2 – NA

Relay:

- 1-Dual Type Relay option for High / Low Cut off
- 2 - Batching

Enclosure:



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- 1 - Flameproof**
- 2 - IP67**