

N - SERIES MASS FLOW METERS

Series N Mass Flow Sensor and IPT200 / DPT100 transmitter are paired to constitute series N flow meter with accuracy in 0.2% or 0.15%.



N - Series Sensor



IPT - Series Transmitter

Features and Benefits of N Series Flow Meter

- The double-U or double-C flow tube ensures the high metering accuracy and customer's requirement.
- A comprehensive series of data supplied, including mass flow, volume flow, density, temperature and reference parameters, makes reliable results without tedious conversion, so the flowmeter is a direct substitute of voltmeter.
- Integrated installation structure reduces installation cost.
- Standard size of the sensor output interface makes the compatible transmitter replaceable, which is easier for maintenance.
- High stability spares people from frequent calibration.
- Dispensing with rectification and special installation of filter or straight tube parts.
- Having no moving parts so there is no need for frequent maintenance.
- No choke-flow parts and the larger flow normal diameter enable the reduction of pressure loss, energy consumption and improvidence.
- A vast range of calibers can suit all the metering requirements.

DPT100 Transmitter		IPT200 Transmitter
Function	Mass flow, volume flow Density and temp, mass Gas and multi-component meas.	Mass flow, volume Density and temp. Water-content & net mass
Type	Integrated ,divided	Integrated divided
Accuracy for Flow	0.15%	0.2%
Accuracy for Density	±0.001g/cm ³	±0.003 g/cm ³
Accuracy for Temp.	±0.5°C	±0.5°C
Power Supply	24V DC 220V AC	24V DC 220V AC
Current Output	4~20mA (active, output variables may be configured)	4~20mA (active or passive, output variables may be configured)
Frequency Output	0~10KHz (active or passive, output variables)	0~10KHz (active or passive, output variables)
Digital Communications	RS-485/Modbus HART//FF(for option)	RS-485/Modbus HART//FF(for option)
Man-machine Interface	3 opto-electrical keys 2 row LCD display Being configured, examined and set zero at site	3 opto-electrical keys 2 row LCD display Being configured, examined and set zero at site
Ambient Temp.	-30~55°C (lowest to -40°C)	
Anti-explosion Authentication	Exde [ib] CT6	Exde [ib] CT6

N – Series Sensor	
Application	Gases/Corrosive Liquids/Grout
Accuracy for Flow	(20:1) –Measure Ratio ±0.15%
Accuracy for Density	±0.003g/cm ³
Accuracy for Temperature	0.5°C
Nominal	DN 10 15 20 25 50 80 100 150
Process Linkage	GB/T9115.1-2000 HG/T20592-2009
Process Pressure	≤4MPa
Material of Measuring Tube	316L Teflon Coat
Process Temperature	-40~200°C (divided type) -40~125°C (integrated type)
Protective Level	IP67
Application Type	Continuous measurement and control Batch loading and discharging Business transaction
Type of Attachable Transmitter	IPT200 & DPT100

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