

NOOVEX Possesses complete in-house design and manufacturing capabilities for MEMS chip packaging, sensor cores, signal conditioning circuits, and sensing structures.

IP67 Certified

Dual-Parameter Transmitters
Pressure and Temperature

Devotion, Focus, Professionalism

European Design

5-Year Warranty

NOOVEX



NOOVEX precision sensors for industrial cooling



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Technical Indicators

Parameter	Value / Specification
Pressure Range	-1~70bar (Optional custom range)
Combined Accuracy	±0.8% F.S. (-30~+100°C); ±1.0% F.S. (-40~+120°C); 0.5% customizable
Operating Temperature	-40~+125°C
Operating Voltage	Absolute type: 4.75~16VDC; Ratiometric type: 4.75~6VDC (Max 16V without damage); Max. 15mA
Output Signal	0.5~3.5VDC, 0.5~4.5VDC, 0~5VDC; >10kΩ
Response Time	10ms (Acceptable custom 50/60Hz power frequency interference suppression)
Temperature Sensor	NTC ±1%, Pt100 ±0.15%, Pt1000 ±0.15%
Overvoltage	16VDC
Reverse Voltage Protection	-16VDC
Short Circuit Protection	Yes
Storage Temperature	-40~+150°C
Proof Pressure / Overpressure	2 times full scale (2x Range)
Burst Pressure	3 times full scale (3x Range)
Cycle Life	1 million times
Vibration	11g (50~2000Hz)
Drop	1m
Protection Class	IP67 (Body)
Pollution Degree	Level 2
Insulation Voltage	1800VAC/1S, <1mA
Insulation Resistance	≥100MΩ
Radiated Emission	≤4.9Db (30MHz~1GHz), Portable alternator
Electromagnetic Field Radiation	Step 1%, Modulation 1kHz, 80% AM, 1S
ESD	Air 8kV, Contact 4kV
Certification	RoHS, CE

NSC Current-Type Pressure Transmitter

The NSC series pressure transmitters can be applied for a long time in systems that require long-term harsh operations, such as industrial automation, refrigeration, and air-conditioning heat pumps. built with an imported oil-filled diffused silicon sensing element and an automotive-grade signal conditioning IC.

Key Applications of Noovex Industrial Pressure Sensors:

- Industrial & Commercial Refrigeration
- Energy Storage Liquid Cooling
- Data Center Air Conditioning
- Transport Refrigeration

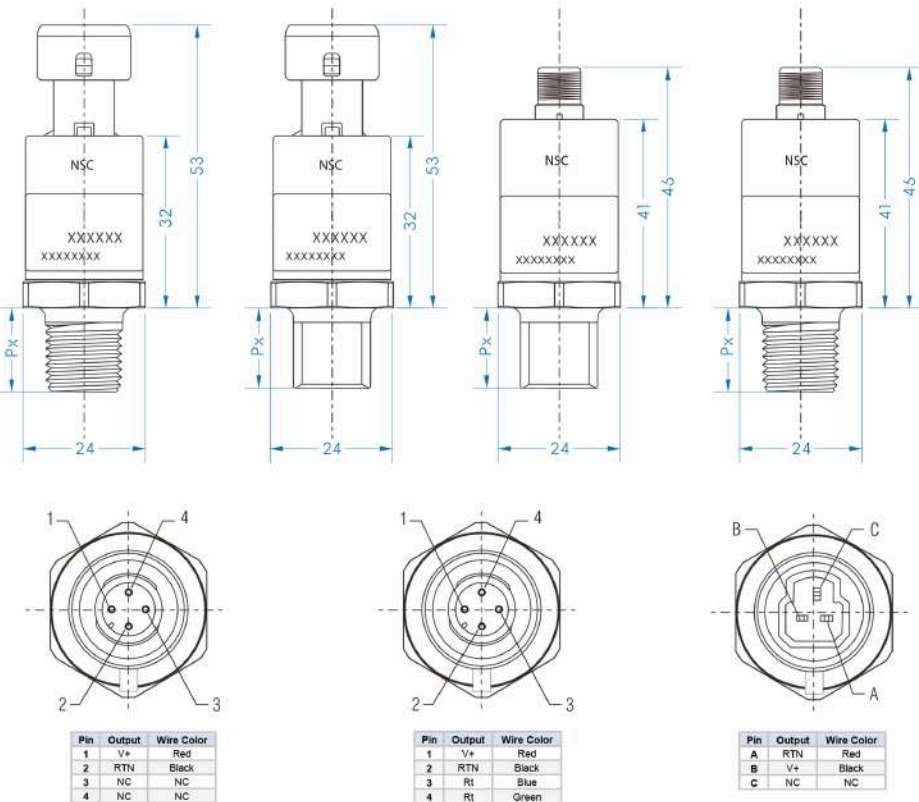


PRESSURE RANGE: 0-10 Bar (Customizable)

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M12-4P Aviation Socket (M12-4P)



Advanced Core Technology:
 Equipped with imported diffused silicon sensing elements.
 Automotive-grade signal conditioning IC for stable output.
 Low temperature drift with excellent long-term reliability.

Robust Mechanical Design:
 O-ring-free laser fully-sealed welding technology.
 Complete isolation between media and internal electronics.
 Prevents leakage caused by seal ring deformation under high temperatures.
 Excellent EMC/ESD performance, suitable for various harsh environments.

Seal-ring-free laser fully-sealed welding technology;
 Isolation between media and electricity makes it Suitable for flammable and explosive media, and Solves the leakage issue caused by seal ring Deformation under high and low temperatures.
 Excellent EMC/ESD performance, suitable for various Harsh working environments.



Matching Wiring Harness Selection

Packard Connector

The Packard harness defaults to 3 meters, longer lengths can be customized.

Gland Direct Cable Type

The cable type defaults to 3 meters, longer lengths can be customized.



Wiring and Customization Option:

Integrated pressure and temperature wiring.
Temperature sensor types can be fully customized according to customer requirements.

NSB	B	30	S	01	I	02	X
Series	Pressure Unit	Range	Housing Material	Inlet Port / Gas Inlet	Output Signal	Electrical Connection	Custom Add-ons
Diffused silicon series	BN: Bar	1: 1bar	10: 10Kpa	S: Stainless Steel	01: 7/16UNF-2B	V: 0 - 10V	01: Direct cable outlet
		1.6: 1.6bar	20: 20Kpa	B: Brass	02: G1/4	I: 4 - 20mA	02: Packard 3-pin
	B: Bar	2: 2bar	30: 30Kpa		03: G1/8		03: Hirschmann 3-pin
		2.5: 2.5bar	40: 40Kpa		04: 7/16UNF-2A		04: Packard 4-pin
	K: Kpa	4: 4bar	50: 50Kpa		05: M12x1.5		05: Packard 5-pin
		6: 6bar	60: 60Kpa		06: M20*1.5		
		8: 8bar	80: 80Kpa		07: 1/4-18NPT		
		10: 10bar			08: 1/8-27NPT		
		12: 12bar			09: 7/16UNF-2A		
		15: 15bar			10 G1/2\		
		18: 18bar			11 M20*1.5		
		20: 20bar					
		25: 25bar					
		30: 30bar					
		40: 40bar					
		50: 50bar					
		60: 60bar					
		70: 70bar					

Pressure range starts below 16bar / from -1bar
For ranges below 20bar, the absolute pressure can drop down to -1bar (select BN).

Other ranges can be customized.

1: 01(7/16UNF-2B)rightarrow Internal thread
2: 04(7/16UNF-2A) rightarrow External thread
3: 09(7/16-20UNF-2A)45"

The standard length for the direct cable outlet is 1 meter, which can be extended (refer to the suffix code)
Please consult for detailed functions/specifications

Precision Engineering. Industrial Reliability

At NOOVEX, we specialize in driving efficiency and reliability across the industrial refrigeration and HVAC sectors. As a dedicated provider of high-precision pressure sensors, temperature controls, and specialized cooling components, our mission is to empower smart climate control technologies worldwide.

Grounded in continuous innovation and rigorous quality standards, our products are engineered by European technical experts and manufactured directly in our state-of-the-art production facilities. By managing the entire supply chain from advanced engineering to final assembly, we operate as a direct factory manufacturer, guaranteeing that every precision component delivers absolute accuracy and heavy-duty reliability under extreme industrial conditions.

Whether ensuring the seamless operation of heavy-duty chillers or optimizing commercial refrigeration setups, our commitment is simple: uncompromised accuracy, exceptional durability, and proactive customer support. We don't just supply parts; we deliver the foundational engineering that keeps your critical systems running perfectly.



Why Choose NOOVEX?

Your trusted partner in precision industrial cooling and refrigeration infrastructure.

- Global Manufacturing Standards
- Cross-Border Supply Chain
- Tailored Engineering Solutions