SCAN TRONIC
COMBUSTION OPTIMIZING

NOx Sensor NS2025



Technical Information and Installation Guide

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NOx SENSOR NS2025

Product overview:

The NS2025 is a smart NOx sensor assembly for combustion and industrial exhaust applications. The sensor measures NOx concentration and O2 concentration in the exhaust gas and provides measured values for the control system. The NS2025 consists of a NOx sensor probe, a non-detachable NS2025 control unit and integrated heating and measurement control.

Technical data:

Measurement

NOx measuring range:	0 - 3012 ppm
O2 measuring range:	0 - 20.95 % O2
NOx response time:	< 1800 ms
O2 response time:	< 800 ms

Electrical

Supply voltage system:	24 V DC
Nominal supply voltage:	28.5 V DC
Operating voltage range:	16 - 32 V DC

Mechanical

Thread:	M20 x 1.5
Wrench size:	22 mm
Tightening torque:	60 +/- 10 Nm
Sensor assembly:	non-detachable probe/control unit

Operating conditions

Application:	multi-application combustion systems
Recommended gas temp.:	100 - 800 deg C
Max. exhaust gas temp.:	850 deg C
Short-term max. temp.:	950 deg C, limited accumulated time
Pressure range, full accuracy:	600 - 1500 hPa

Note: Values are intended as installation and product guide data for NS2025. Final system validation must be made in the actual application.

NS2025 Installation and Warnings

Mounting:

1. Handle the NS2025 with care. Do not throw, drop or expose the sensor to mechanical shock.

2. The NS2025 consists of a sensor probe and a non-detachable control unit. Do not pull, twist or sharply bend the cable between the probe and the control unit.

3. Remove the protective cap only shortly before installation.

4. Install the sensor in an M20 x 1.5 threaded boss.

5. Use a 22 mm wrench or suitable tool adapter.

6. Tighten the sensor with 60 +/- 10 Nm.

7. Install the sensor where the exhaust gas is representative and where liquid water, fuel, oil or AdBlue cannot reach the sensor element.

8. The sensor should be installed in a position that avoids condensate accumulation and thermal shock.

9. The control unit must be fixed safely and protected from vibration, water ingress, direct heat and mechanical impact.

10. Power must be switched off before connecting or disconnecting the NS2025 connector.

Warnings:

1. The NS2025 must not be exposed to exhaust gas while unheated.

2. Do not connect or disconnect the NS2025 while power is switched on.

3. The sensor probe becomes very hot during heating and normal operation. Touching the probe can cause severe burns.

4. The NS2025 must not be contaminated by oil, fuel, grease, coolant, sealant, AdBlue or other chemicals.

5. Do not apply grease or sealant to the sensor protection tube or connector.

6. The connector is essential for correct sensor function. Protect the connector from dirt, water and corrosion.

7. The sensor must not be exposed to excessive soot, lead, phosphorus, silicon, halogens or high sulfur concentration.

8. If the sensor is damaged, contaminated, dropped or mechanically overloaded, replace the complete NS2025 assembly.

9. Store the NS2025 in the original packaging in a clean and dry place.

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