

Mechatronics Newsletter



going the extra mile



November 2023

Introduction to the Mechatronics Range

Being one of the leading exhaust aftertreatment solution producers, Dinex is proud to venture into the computerized age by naturally extending the product portfolio with the mechatronics range.

As technology progresses, computers, sensors, and electronic actuators become ever more involved in the automotive industry, reaching into almost every single system of the vehicle, where together they are called mechatronics components.

To support our philosophy of providing everything from turbo to tailpipe, in addition to the well-recognized steelwork and ATS components, we have launched NOx, pressure, and temperature sensors, AdBlue pumps and injectors, as well as remanufactured diesel injectors.



Ongoing Developments

Here at Dinex, we believe that evolution is the future, therefore we are constantly working on continuous improvements, range extensions and new product development.

At present, activities are being carried out to extend the NOx sensor product range, supporting also newer vehicles where the OE sensors originate from Bosch, rather than Continental which has historically been dominant.

Latest Range Extensions

The latest additions to the mechatronics product range include temperature sensors 47043 for a wide range of MAN trucks and buses alike, 51046 for Mercedes Actros and 51061 for Mercedes Actros and Atego trucks. Pressure sensor 51051 for Mercedes Atego, Antos and Actros and AdBlue pump 4IP004 for a wide range of MAN trucks and buses.



Tackling Commonly Known Aftermarket Sensor Challenges

After analyzing the general feedback and customer experiences with a wide range of Aftermarket NOx-sensors, Dinex has made a series of improvements and extensive testing to its own product range, and have now introduced a new and improved Gen 2.0 sensor range.

According to the continuous data and feedback that we are collecting from the market, the new product is a stable performer, qualifying at OE-level quality claim rate and providing the perfect price-performance ratio.

- **More efficient heating strategy**
Increased durability
Increased accuracy
- **Updated probe design**
Enhanced protection
Faster response time
- **Smarter programming**
Beyond compatibility constraints
Ability to re-flash

In case you're in doubt of whether or not the product in stock is a gen 1 or gen 2 NOx sensor, the first four digits of the traceability code should be noted from the product box as per the image. Please refer to the table below to identify gen 1 NOx sensors and contact your local Dinex subsidiary to arrange a 1:1 replacement.



Gen 1 NOx Sensor Traceability Codes

Make	Model	Dinex No.	Traceability No.
DAF	XF	22021	8720
		22026	8720
	XF 105, CF 85, CF75	22030	8720
MAN	Chassis D0834 LFL, D2066 LF	47032	8720
Mercedes	Atego, Actros	51028	8720
	Tourismo, Integro	51031	8720
	Sprinter, E-class, V-class	51033	8720
	Atego, Actros, Econic	51036	8720
Scania	P, G, R, T, S, F, K, N	67031	8720 or 5020
		67032	8720 or 5020
Volvo	FH(4), FM(4), FL(3), FE(3), FH/FM, B5LH B8R	81032	8720
Renault	D narrow, D wide, T-series, K-series		8720



In our effort to stand by our customers, we are interested in spreading knowledge about all of our products, especially the very popular NOx sensor. To help this cause, we have launched a series of informative videos called "Dr. NOx episodes".

That and much more valuable information can be found on our website at:

<https://www.dinex.net/aftermarket/mechatronics> or scan the QR code below with your smartphone.



- Episode One: Introduction to generation 2 NOx sensors
- Episode Two: How engine and exhaust system maintenance affects NOx sensors