



Instruments for measuring vehicle exhaust particulate number emissions



Measurement of particle number concentration (PN) in the exhaust of motor vehicles has recently become really important in several European countries and it will be integrated in PTI legislation starting from Netherland, Belgium and Germany. Charge-based sensing techniques for the examination of PN, like Diffusion Charging (DC), represents the main technology available for this type of check. NP 01 is the first TEXA tool of a new instrument generation developed and designed in order to measure particulate number concentration of motor vehicles emissions. NP 01 is a particle counter working in the dimensional range between 23 and 200 nm using a DC sensor. NP 01 integrates a touch screen display for a fast and easy management by end user and a WiFi interface for communicating to the visualization software. NP 01 was developed respecting technical specifications requested by Dutch N-PTI regulation and German PTB-A 12.16.

Data Sheet

Technology	DC	Response time 95%	< 15 sec
Measuring range	5.000 – 5.000.000 #/cm ³	Error (absolute)	25.000 #/cm ³
Particle size	23 -200 nm	Error (relative)	25%
Resolution	1.000 #/cm ³	Interfaces	WiFi, USB



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