NP-01 Particle Counter

PTI PN LATAM Working Group

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Texa S.p.A Headquarter

TEXA was formed in 1992 by Bruno Vianello, the current Chairman of the board of directors. The company initially concentrated on the production of **electronic diagnostic tools** for vehicles, but over the years has added **exhaust gas analysers, vehicle air conditioning recharge stations and devices for advanced telediagnosis.**

TEXA has also extended its target market to include trucks, motorcycles, agricultural vehicles and marine engines.

The last frontier is the production of sophisticated Powertrain systems for electric propulsion vehicles.

All TEXA products are made in Italy at the company's fully automated plant in Monastier di Treviso.

People

At TEXA there are no “employees”, just “people”. This concept, introduced by President Bruno Vianello, expresses the belief that everybody working at TEXA should feel personally involved in the company's future, and should consider the company their own. The same philosophy is behind the close attention TEXA pays to the work environment.

TEXA around the world

TEXA S.p.A.	TEXA Iberica	TEXA Deutschland	TEXA UK	TEXA USA	TEXA Poland	TEXA Japan	TEXA Brasil
1992	2000	2002	2005	2006	2008	2009	2014

TEXA France

Simplifying the present, anticipating the future

Texa South & Central America

Texa branch South America

São Paulo do Brasil

Texa authorized distributors:

México, Colombia, Chile, Perù, Ecuador, Argentina, Uruguay, Paraguay & Bolivia

Exhaust gas analysis systems

Tougher and tougher emissions tests are being imposed on vehicles throughout Europe. To enable mechanics to perform exhaust gas analysis in a professional manner, TEXA offers a range of products specifically designed to perform all the necessary tests. TEXA's complete and effective solutions conform to the strictest international standards.

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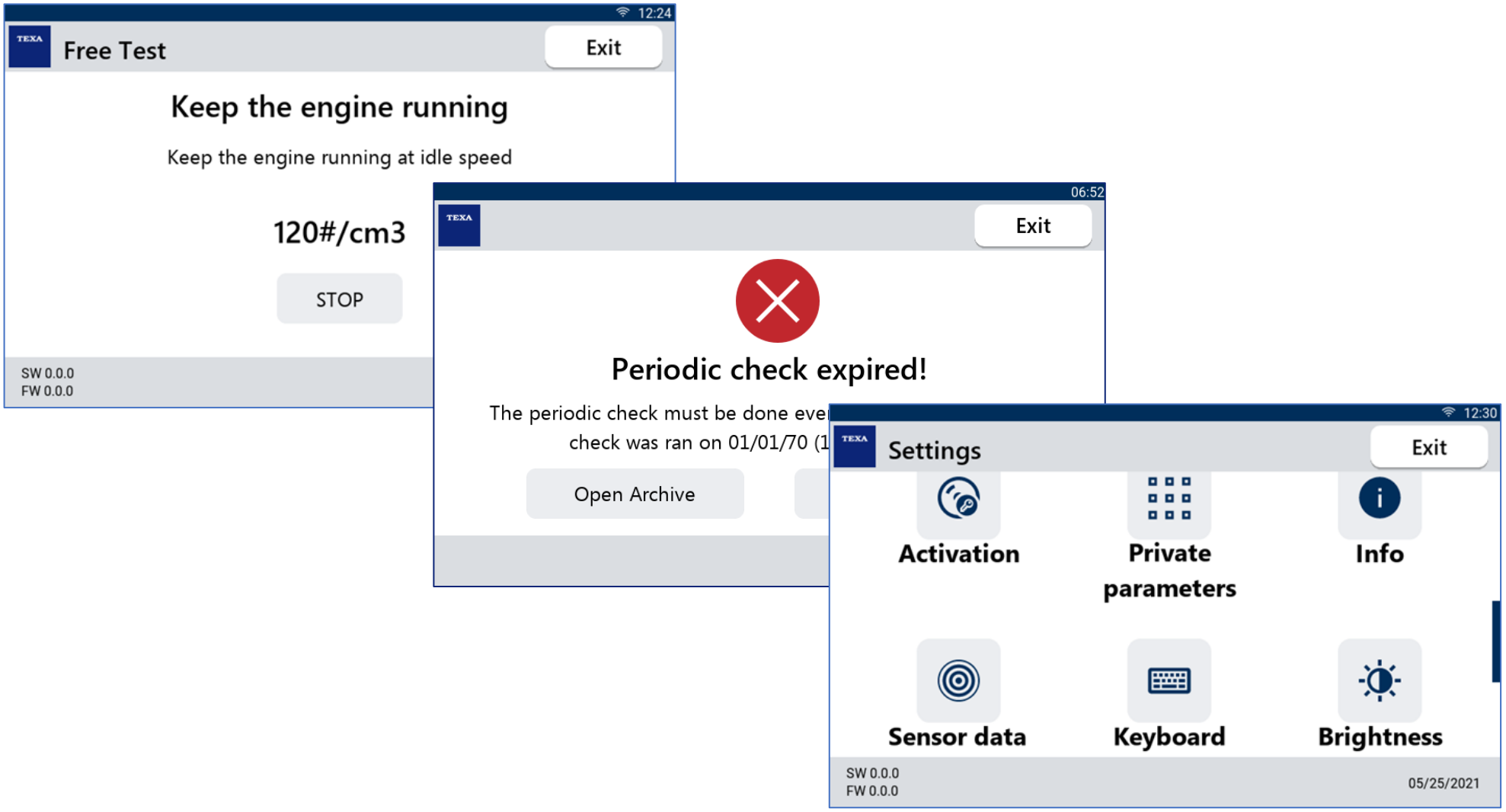
NP-01 Particle Number Counter

- Robust designed solution, insensitive to vibrations
- High efficiency Diffusion charging measuring sensor
- Fast and guided measuring procedure
- High level of future-proof technology easily adapting to the changes in the time: Linux based platform;
- Flexible and adaptable to different end user needs: measuring procedure by stand-alone application on touch screen display or through PC interface
- Low level of maintenance
- Ready for petrol engine test

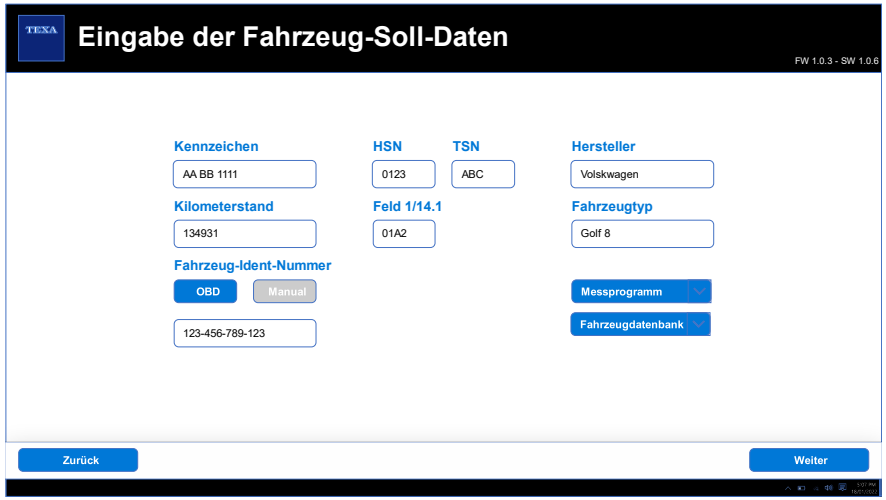
Main Features

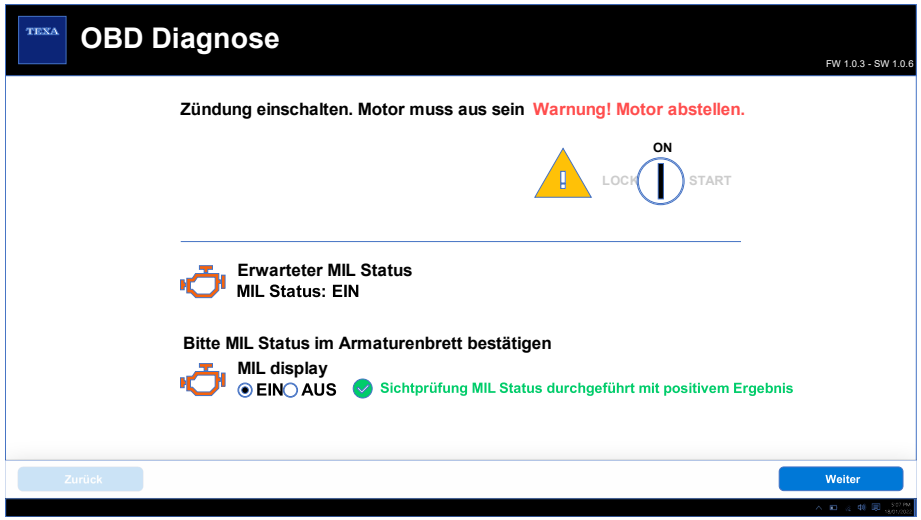
Measuring technology	Diffusion Charging Sensor
Display	Touchscreen 5" LCD NT TFT ; 800x480 pixel; Anti-glare
Type	Stand alone unit Managed by Windows software
Interfaces	Wi-Fi & USB
Operating System	Linux OS
Warranty	24 months
Compliant with	Netherland Regulation NPTI part 1 & part 2 German Regulation PTB-A 12.16 Switzerland CH-K4-24009

Stand Alone version: HMI user interface



PC Software suite – available for German AU6





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Calibration procedure & maintenance

Periodic calibration

- 1 year
- Manage by software function
- Check of several concentrations (100K, 250K, 500K, etc. #/cm3)

Standard maintenance

- Leak test
- Probe check
- Filters replacement
- Cleaning of mechanic filter

Main development challenges

Country	Meas. Range	Tolerance	Limits	Procedure
Netherlands	5K-5M	±25%	Euro 5 1M	15s
Belgium	5K-5M	±25%	250K	15s
Germany	5K-500K	±75%	FP50K 250K	With rev. counter
Switzerland	50K-5M	±30%	FP100K 250K	40s

Suggestions and Considerations for Implementation

1. **Define a standardize recommendation that includes:**
    a) Technical requirements
    b) Testing procedures
    c) Vehicle limits
    d) Calibration procedures
2. **Reference instruments and procedures for periodic check:**
    a) Recommend a reference with stricter tolerance than PNC tolerance (at least 1/3)
    b) Recommend the periodic check pf PNC each 12 months
    c) Request the calibration of reference each 6 months

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Thanks for your attention

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