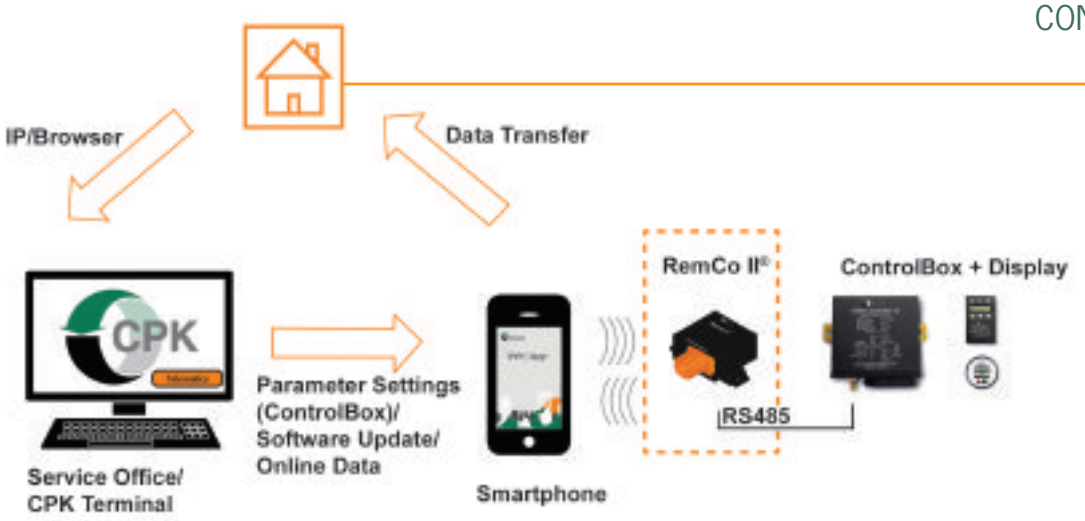

The RemCo II remote control module by CPK works in conjunction with the Dyntest emissions control system. The collected, encrypted data are transferred via Bluetooth to a smartphone, where a special app allows users to transfer the data into a dedicated web portal for analysis.

DATA ANALYSIS FROM FAR AWAY

CPK's RemCo II system provides remote access for emissions control system; applications not limited to exhaust aftertreatment monitoring

CPK Automotive GmbH & Co. KG (CPK), Münster, Germany, has introduced RemCo II, a remote control system that supplements the company's Dyntest family of emissions controls and allows data analysis via remote access to the Dyntest ControlBox from anywhere in the world.

RemCo II is composed of a hardware module plus the smartphone application DYN@pp, which is available for iOS and Android operating systems.

The hardware communication between the RemCo II module and Dyntest ControlBox is based on the established Dyntest Bus system. RemCo II is compatible with current and older Dyntest ControlBox versions.

The system works with encrypted data, transferred via Bluetooth to the smartphone. DYN@pp sends the data automatically to a server once the smartphone has access to the Internet. Authorized users can access the data on a web portal. In this way, data can be available for analysis while the machine is still in the field and without Internet connection, such as when vehicles are working underground. Possible abnormalities are thus discovered at an early stage and measures can be planned on time, CPK said.

In addition to data downloads, the RemCo II system also allows remote access to the ControlBox and also to the RemCo II module itself. Using the CPK Terminal software, the user logs in on the server via an Internet connection, then a list is shown with all RemCo II systems that are ready for connection and for which the user is authorized. That means a smartphone with active DYN@pp is connected with both a RemCo II system and also the Internet.

After selecting one RemCo II module, the system provides the full functionality of the CPK Terminal software, as for example changing parameter settings, watching data online and even modifying software remotely.

"The requirements for the RemCo II module were developed in numerous workshops with our customers," CPK Chief Executive Officer Frank Noack said. "The technical realization enables our customers to fulfill their service contracts in an efficient and resource-saving manner. Applications for RemCo II are not limited to the exhaust aftertreatment market."

CPK said that additional applications for the RemCo II system include the remote monitoring of oil quality or bearing condition for predictive maintenance. A future version of RemCo II with GPS will allow rental companies to geofence machinery, the company said.

In its base version, RemCo II comes with RS485 interface and the company said a CAN interface would be available in the near future. This will open up the system to even more applications, such as transferring data from the vehicle CANbus according to SAE J1939 protocols.

The RemCo II module is a compact unit with dimensions of approximately 60 x 60 x 30 mm. The device is specified for working at ambient temperatures of -40° to 85°C and with supply voltages of 9 to 32 Vdc. The module meets IP67 standards, the company said.

CPK said that further variants, such as the one with integrated GPS data acquisition, are under development. dpi

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