imc measurement systems in the Internet of Things
imc measurement systems equipped with a WebServer – mobile operation via Smartphone or Tablet

The Internet of Things (IoT) is one of the newest tech terms being tossed around and refers to networking machinery and even components through the internet - also known as Industry 4.0. As a pioneer of this development since 1995, imc Meßsysteme GmbH has offered a variety of networking solutions via Ethernet, WLAN or 3G/4G, including remote access to measurement devices and data.

Responding to future demands and addressing the resulting new possibilities, imc can equip your measurement device with the imc REMOTE WebServer. The measuring system will have its own "homepage" that the customer can simply pull up using a web browser from any smartphone, tablet or laptop. This allows platform-independent access without any special software.

The application possibilities range from the simple use of smartphones or tablets as a mobile display for your measurement device on networked test stands within the company, all the way to complete monitoring of remote wind turbines via the internet.

Web design without programming

For quick and easy creation of the measurement device's homepage, the imc REMOTE WebServer provides its own Web-Designer Wizard. Ready-to-use display and control elements can be placed and linked to the measurement channels using the simple "Drag & Drop" function. In addition to displaying the pure measurement data, control and operation elements, such as buttons and switches, can also be added that allow the user to control events such as starting, stopping, and triggering upon command.

Secure connection even over the internet

If the measuring system is networked via the internet, it is advisable to encrypt the communication between the measuring system and the device. To this end, the imc Webserver supports the secure https-protocol. It allows secure transmission of data between the Webserver and browser.

Background: imc REMOTE testing

The imc REMOTE Webserver is part of the imc REMOTE product family.

In the fields of development and testing, imc is already offering a broad range of solutions that range from remote monitoring to remote testing. Measurement data are recorded near the sensor, reduced and condensed locally, and then transmitted over the internet to the user, or stored online in the Cloud. The final product provides automatic, unmanned data acquisition, which stores the measurement data in the Cloud and provides qualitative answers to specific operator questions based on intelligent signal analysis.

For more information on imc REMOTE testing, visit us at: www.remotetesting.info

imc Meßsysteme GmbH, Berlin, Germany (manufacturer)

For over 25 years, imc Meßsysteme GmbH has been developing, manufacturing and selling hardware and software solutions worldwide in the field of physical measurement technology. Whether in a vehicle, on a test bench or monitoring plants and machinery – data acquisition with imc systems is considered productive, user-friendly and profitable. So whether needed in research, development, testing or commissioning, imc offers complete turnkey solutions, as well as standardized measurement devices and software products.

imc measurement systems work in mechanical and mechatronic applications offering up to 100 kHz sampling rate per channel with most popular sensors for measuring physical quantities, such as pressure, force, speed, vibration, noise, temperature, voltage or current. The spectrum of imc measurement products and services ranges from simple data recording via integrated real-time calculations, to the integration of models and complete automation of test benches.

Founded in 1988 and headquartered in Berlin, imc Meßsysteme GmbH employs around 160 employees who are continuously working hard to further develop the product portfolio. Internationally, imc products are distributed and sold through our 25 partner companies.

imc Test & Measurement GmbH (sales and system integration)

imc Test & Measurement GmbH is a system house that offers products and services for measurement applications. Our team of about 40 proven experts, having mainly backgrounds in engineering or science, work to realize customer-oriented and application-specific solutions on the subject of "electrical measurement of physical quantities."

imc Test & Measurement GmbH markets the recognizably innovative and powerful hardware and software products from their strategic partner, imc Meßsysteme GmbH, Berlin.

We complement these products with our comprehensive engineering services. These range from design, consulting and sales, with pre-and after-sales service, as well as customer and application-specific extensions, system integration, commissioning, training, rental of measuring systems, personnel contracting and much more.

Press information

For immediate release

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