

New Profinet Interface Connects imc CRONOS Measurement System with Machine Controllers

Networking and Data Exchange in Industrial Ethernet Applications



Fig.: New Profinet Interface for imc CRONOSflex data acquisition system

Berlin, May, 24, 2021 – **A Profinet interface is now available for the imc CRONOS measurement system from imc Test & Measurement GmbH. This makes it possible to network devices of the imc CRONOS family of measurement systems with industrial controllers, PLCs or tooling machines. Expansion through the new Profinet interface transforms imc CRONOS into a Profinet IO device. This allows imc devices to be used for demanding applications in process and test stand automation, machine monitoring and condition monitoring.**

In the area of automation, field buses provide exchange of machine parameters, control commands, status information, measurement values and alarms. Profinet has established itself in these areas as a communications standard for industrial Ethernet with real-time capabilities. As the successor to Profibus (RS485), Profinet is network-based (100 Mbit/s) and is now available as an interface option for imc CRONOS.

The PROFINET IRT Interface allows an imc CRONOS measurement system to be networked in applications for process and test stand automation or for condition monitoring of machines and industrial installations. The interface allows bidirectional data exchange in real time and has been implemented in accordance with conformance class CC-C. It thus supports real time functionality, particularly through mechanisms of synchronization (PTP) and reserved bandwidth (IRT; isochronous real time). As a result, imc CRONOS becomes a fully fledged IO device physically coupled to the control network through two dedicated RJ45 terminals.

imc CRONOS is a modular, high-end measurement device platform for physical quantities. It has been on the market for over 10 years and since then been continuously evolved and refined. imc CRONOS devices are designed for measurement tasks that are demanding and require multiple channels. As a highly flexible system for measurement, data acquisition, control and automation solutions, imc CRONOS is used in a wide range of stationary and mobile applications. In stationary industrial applications this can range from single test stands to complete test facilities or condition monitoring of machines.

imc Test & Measurement GmbH

imc Test & Measurement GmbH is a manufacturer and solution provider of productive test and measurement systems. Together with its customers from the fields of automotive engineering, mechanical engineering, railway, aviation and energy, imc implements metrological solutions for R&D, service and manufacturing. Every day customers use imc measurement devices, software solutions and test benches to validate prototypes, optimize products, monitor processes and gain knowledge from measurement data. The claim "productive testing" is consistently pursued by imc. The company offers its customers top technological performance along the entire measurement chain.

The core of the product portfolio consists of imc's modular measurement, control and automation systems, which are supplemented for customer applications by custom-fit sensor and telemetry systems of imc's own sensor and telemetry manufacturers CAEMAX Technologie GmbH and KMT Krauss Messtechnik GmbH. Using the imc software platform, users can quickly and easily implement comprehensive test and measurement processes, perform real-time analyses and automate test benches. With powerful software tools for the analysis and management of test and measurement data, as well as cloud services, imc sets trends in future technologies, such as smart data analysis, and brings measurement technology solutions to industry 4.0 and the Internet of Things (IoT).

imc has particular expertise in the design and production of turnkey electric motor test benches. Equipped with state-of-the-art test procedures, such as load-free acquisition of motor parameters and automated test sequences, they accelerate customer testing. imc test benches work reliably worldwide, both in R&D and in production environments.

As a solution provider, imc offers its customers an attractive range of services. These include project consulting, contract measurements, data evaluation, outsourcing of specialists, customer-specific software development and system integration.

imc customers benefit both nationally and internationally from a strong expertise and sales network that implements test and measurement solutions locally in more than 25 countries. Founded in 1988 in Berlin, the company employs around 250 people at three locations in Germany. International branch offices are located in Austria, France, Switzerland and Spain, the Netherlands, the USA, China and South Korea. Since 2021, imc Test & Measurement has been part of the "Test & Measurement" group of companies owned by technology investor Battery Ventures, which also includes Audio Precision Inc. and GRAS Sound & Vibration.

imc Test & Measurement GmbH
Voltastrasse 5
D-13355 Berlin
Phone: +49 (0)30 – 46 70 90 – 0
Fax: +49 (0)30 – 4 63 15 76
E-mail hotline@imc-tm.de
Internet www.imc-tm.com

Press contact:
Mrs. Caroline Gabbert
Phone: +49 (0)6172 – 59672 – 0
E-mail: caroline.gabbert@imc-tm.de

After consultation, we will assume costs associated with publication.