Press release

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**New possibilities in confocal measurement technology**

**With the new confocalDT IFC2412 and IFC2417 2-channel controllers as well as the IFD2410/2415 sensor systems with Ethernet data output, Micro-Epsilon expands its confocal product portfolio for demanding industrial applications. The compact controllers combine maximum precision with a robust design and are ideal for serial production.**

Micro-Epsilon's confocal chromatic sensor portfolio is one of the most comprehensive and powerful portfolios worldwide. With the new IFC2412 and IFC2417 confocal chromatic controllers, users now have powerful 2-channel versions of the IFC2411 and IFC2416 models at their disposal. Thanks to integrated calculation functions, the new 2-channel controllers enable two-sided thickness measurement with just one controller and offer an expanded range of applications, particularly for industries such as semiconductor manufacturing, battery cell production, and optical inspection tasks in machine building.

**Two-channel controller for demanding applications**

The compact IFC2412 offers two channels with an adjustable measuring rate of 8 kHz and a sub-micrometer resolution of up to 2 nm. The powerful IFC2417 operates at a measuring rate of 25 kHz and also enables multi-peak measurements with up to five layers. Active exposure control of the CCD array ensures stable measurement results in both models, even on challenging surfaces. The controllers are equipped with a robust IP40 aluminum housing and can be easily integrated into existing systems thanks to their extremely small design. They are conveniently mounted on the DIN rail in the control cabinet – perfect for OEM applications and serial production.

**All-in-one sensor systems with Ethernet interface**

The compact all-in-one sensor systems IFD2410 and IFD2415 are considered top of their class and impress with their high precision, speed, and stability combined with simple operation. These systems are now also available with an integrated Ethernet interface for data transmission. Measured values can thus be output directly and with 32-bit resolution. The compact systems do not require fiber optics and are ideal for series integration into machines and systems. The new Ethernet interface expands the range of field buses already available (EtherCAT, PROFINET and EtherNet/IP). As with almost all Micro-Epsilon sensors, integration into the customer's own software is easy with the freely available MEDAQLib software and driver library.

*approx. 2,600 characters*

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