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MKS Announces Ophir® High Power Modular Industrial Laser Power Sensor for Dusty, Dirty Production Operations

Andover, MA – April 11, 2022 – MKS Instruments, Inc. (NASDAQ: MKSI), a global provider of technologies that enable advanced processes and improve productivity, has announced the **Ophir® IPM-10KW**, a high power modular laser power sensor that delivers high accuracy and repeatable measurements in rough production environments. The IPM-10KW sensor measures powers from 100W to 11kW for wavelengths from 900 to 1100nm and 10.6µm. The sensor is designed for manufacturers of laser-based machines for cutting and welding, as well as users who produce parts using these machines. The sensor’s modular format allows users to mix and match components based on application needs. An optional automated shutter with a field replaceable window protects the sensor against dust and debris. Optional communication modules provide Profinet or EtherNet/IP connectivity.

“Automotive manufacturers and others working in heavy industries are increasingly concerned about the problems that arise if they produce faulty parts – loss of material, loss of time, loss of reputation, loss of money, and legal ramifications,” said Reuven Silverman, General Manager, Ophir Photonics. “The new Ophir IPM-10KW is a versatile and robust high power laser measurement tool that easily integrates with modern automation systems. It provides real time visibility into the process, helping to eliminate bad products due to inappropriate laser power. The sensor’s ability to measure



smaller beams means the sensor can be installed closer to the focal point, ensuring more accurate readings.”

The **IPM-10KW industrial laser power sensor** is a modular system that includes four (4) easy-to-clean and simple-to-maintain components:

- IPM-10KW power sensor with ISO17025 NIST and PTB traceability,
- IPM-Shutter10 automated shutter, field replaceable anti reflective protective window, and scatter shield (IP62-rated),
- IPM-COM/Profinet communications module,
- IPM-COM/EtherNet/IP communications module.

The **IPM-10KW sensor** easily integrates into factory automation systems. Profinet and EtherNet/IP communication modules include two communication ports for daisy chain or ring networks, as well as two power connectors for power chaining. Measurements provide real time visibility into the process and alarm triggering for corrective actions, enabling predictive maintenance.

As a water-cooled system, the **IPM-10KW sensor** includes an interface for an external water flow meter. A built-in interlock system manages shutdown of the laser if the sensor overheats. Reference design for customized optical fiber adaptors are available on request. The IPM-10KW is lighter weight than current industry options and can be installed horizontally, vertically, or upside down.

Availability & Pricing

The **Ophir IPM-10KW industrial laser sensor** is available now. OEM prices available on request.

DATA SHEET: <https://bit.ly/3LP6IEj>

SALES INQUIRIES: sales.ophir.usa@mksinst.com

About MKS Instruments

MKS Instruments, Inc. (NASDAQ: MKSI), is a global provider of instruments, systems, subsystems and process control solutions that measure, monitor, deliver, analyze, power and control critical parameters of advanced manufacturing processes to improve process performance and productivity for our customers. Our products are derived from our core competencies in pressure measurement and control, flow measurement and control, gas and vapor delivery, gas composition analysis, electronic control technology, reactive gas generation

and delivery, power generation and delivery, vacuum technology, lasers, photonics, optics, precision motion control, vibration control and laser-based manufacturing systems solutions. We also provide services relating to the maintenance and repair of our products, installation services and training. Our primary served markets include semiconductor, industrial technologies, life and health sciences, research and defense. Additional information can be found at www.mksinst.com.

About the Ophir Brand

Ophir is a brand within the MKS Instruments Light & Motion division. The Ophir product portfolio consists of laser and LED measurement products, including laser power and energy meters, laser beam profilers measuring femto-watt to hundred-kilowatt lasers, high-performance IR and visible optical elements, IR thermal imaging lenses and zoom lenses for defense and commercial applications, OEM and replacement high-quality optics and sub-assemblies for CO₂ and high-power fiber laser material processing applications. Ophir products enhance our customers' capabilities and productivity in the semiconductor, industrial technologies, life and health sciences, research and defense markets. For more information, visit www.ophiropt.com.

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