

Printed and Flexible Sensor Market By Type (Biosensors, Capacitive, Piezoelectric, Piezoresistive, Photodetectors, Digital x-ray , Hybrid CMOs, Temperature, Gas), Industry Trends, Estimation & Forecast, 2016 - 2024

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Abstracts

Global Printed and Flexible Sensor Market was valued at \$7.2 billion in 2016, and is projected to reach \$12.3 billion by 2024, having a CAGR of 7% during the forecast period of 2017 to 2024.

Sensors play an important role in printed electronics. Miniaturization of sensors, as a result of enhancement and development in sensor manufacturing technology, has hiked the demand of printed and flexible sensors in numerous applications. Sensors are majorly used to sense and measure a physical property in order to record, indicate, or respond to it. Manufacturers are focusing on printing of electrodes, as it helps in a cost effective fabrication of sensor arrays over large area on a flexible substrate. The printed and flexible sensors are in the initial phase of their commercialization. This technology is widely finding its use in various applications such as healthcare, safety and security, packaging, automotive, packaging and others. There are various printing processes which are followed while printing the electrodes such as dip-pen nanolithography, vapor-phase printing, inkjet, micro contact, nano-imprinting, lamination, laser processing, transfer printing, roll to roll photolithography, etching and others.

MARKET DETERMINANTS

The benefits of printed sensors over conventional sensors and a swift growth in individual application segment are the major driving factors for the growth of printed and flexible sensor market. Moreover, the flexible printed sensors are cheaper, simple in

design, highly efficient, light weighted and versatile in use. However, challenges in conductive ink printing and insufficient technological accessibility are some major restraints to the market growth. On the other hand, the growing internet of things (IoT) market will drive the demand for printed and flexible sensors as objects in IoT require sensors to transmit the data over networks.

MARKET SEGMENTATION

The segmentation of the printed and flexible sensor market is done on the basis of type and geography. By type, the market is segmented into biosensors, capacitive, piezoelectric, piezoresistive, photo detectors, digital X-ray, hybrid CMOs, temperature and gas sensors. Geographically, the market is bifurcates as North America, Europe, Asia-Pacific and Rest of World.

Piezoresistive sensor is the fastest growing segment in this market and its growth is primarily attributed to rapidly growing end-user market such as automotive and consumer durable markets. Among major geographies, North America lead the market in 2016, and is expected to dominate the global market for the entire forecast period.

Some major market players are Canatu Oy, Fujifilm Holding Corporation, ISORG, Interlink Electronics, Inc., KWJ Engineering, Peratech Holdco Limited, Synkera Technologies, Inc., T+Ink, Inc., Tekscan, Inc., Thin Film Electronics ASA, GSI Technologies LLC.

PRINTED AND FLEXIBLE SENSOR market segmentation

By Type

Biosensors

Capacitive

Piezoelectric

Piezoresistive

Photodetectors

Digital x-ray

Hybrid CMOs

Temperature

Gas

By Geography

North America

Europe

APAC

ROW

KEY MARKET PLAYERS

Canatu Oy

Fujifilm Holding Corporation

ISORG

Interlink Electronics, Inc.

KWJ Engineering

Peratech Holdco Limited

Synkera Technologies, Inc.

T+Ink, Inc.

Tekscan, Inc.

Thin Film Electronics ASA

GSI Technologies LLC

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