

Global Markets and Technologies for Thin-Film Sensors

<https://marketpublishers.com/r/G32C091C1603EN.html>

Date: January 2022

Pages: 134

Price: US\$ 2,750.00 (Single User License)

ID: G32C091C1603EN

Abstracts

Report Scope:

This report provides an overview of the global market and technology for thin-film sensors and analyzes market trends. Using 2020 as the base year, the report provides estimated market data for the forecast period 2021-2026. Revenue forecasts for this period are segmented based on type, application and region.

This report also focuses on the major driving trends and restraints that affect the market. It explains the current trends in the global market and the technology for thin-film sensors. The report concludes with detailed profiles on the major players in the global market and technology for thin-film sensors.

Although fabricated using thin-film technologies, microelectromechanical systems (MEMS) and nanoelectromechanical systems (NEMS) (including BioMEMS, BioNEMS and integrated circuit [IC]), sensors are not included within the scope of this study. MEMS and NEMS sensors are covered in the BCC Research report, IAS027D MEMS: Biosensors and Nanosensors (published in Dec. 2015). IC sensors are devices with the sensing element integrated on the silicon chip in addition to the transistor and other electrical components. These devices are typically included in the product portfolio of semiconductor manufacturers and are considered part of the general semiconductor industry.

To summarize, this study covers thin-film sensors that do not include micromechanical parts, are not produced on silicon wafers and are manufactured separately from the active component of the circuit.

Report Includes:

29 data tables and 65 additional tables

An overview of the global market and technologies for thin-film sensor

Estimation of the market size and analyses of global market trends, with data from 2020 to 2021, estimates for 2022, 2024 and projections of compound annual growth rates (CAGRs) through 2026

Highlights of the current and future market potential and quantification of thin-film sensor market based on application, type and region

Identification of market drivers, restraints and other forces impacting the global market and evaluation of current market size and forecast

Coverage of technology overview, evolution and basic fabrication process of thin films, and snapshot of latest technological developments of the industry

Market share analysis of the key companies of the industry and coverage of their proprietary technologies, strategic alliances and other key market strategies

Comprehensive company profiles of the leading players of the industry, including AMETEK, Honeywell International Inc., Nova Biomedical, Roche Diagnostics and Vishay Intertechnology Inc.

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
What's New in This Update
Scope of Report
Information Sources
Methodology
Intended Audience
Geographic Breakdown
Analyst's Credentials
BCC Custom Research
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Technology Overview
Evolution of Thin-Film Technologies
Basic Fabrication Process
Substrate Selection
Film Deposition and Patterning
Assembly, Cutting, Testing and Packaging
Latest Technological Developments, 2010 to Present
Piezoelectric Thin-Film for Angular Velocity Sensors
Paper-Based Roll-to-Roll Sensors
Free-Standing Single Walled Carbon Nanotube Thin-Films Formed via Direct Dry Printing Processes
Thin-Film Temperature Sensor on Sapphire Fiber Tip
R2R Micro-Structured Metamaterials Films
Chemical Sensor for Disease Diagnosis
High-Temperature Chemical Sensors
Carbon Nanotube Thin-Films for Infrared Sensors
Thin-Film Stand-Alone Temperature Sensor, by Printing Technology
Roll-to-Roll Sensors' (ROPAS) Project
Minimized Surface Roughness for Electronics in Conducting Thin-Film

Silicon Thin-Film Transistor Aptamer Sensor for COVID-19 Detection
Other Technological Trends
Thin, Ultrathin and Small Footprint Devices
Roll-to-Roll and Large Area Coatings
Merging of Thick and Thin-Film Technologies
Nanotechnology
Market Drivers
Prevention of Hazardous Pollutants
Increasing Adoption in Healthcare, Industrial 4.0 and IoT
Market Restraints
Miniaturization of Sensors
Impact of COVID-19 on Thin-Film Sensors Market

CHAPTER 4 MARKET BREAKDOWN BY TYPE

Introduction
Pressure Sensors
Temperature Sensor
Thermostat
Thermistor
Thermocouple
Humidity and Gas Sensors
Humidity Sensors (Hygrometers)
Gas Sensor
Biochemical Sensors
Other Sensors

CHAPTER 5 MARKET BREAKDOWN BY APPLICATION

Introduction
Automotive
Healthcare
Diabetes Care
Industrial
Electronics
Aerospace and Defense
Others

CHAPTER 6 MARKET BREAKDOWN BY REGION

Introduction
Americas
United States
Canada
Mexico
South America
Europe
United Kingdom
Germany
France
Italy
Rest of Europe
Asia-Pacific
China
Japan
South Korea
India
Rest of APAC
Middle East and Africa

CHAPTER 7 LIST OF GLOBAL INDUSTRY PLAYERS

Global Industry Players
Leading Manufacturers of Thin-Film Sensors
Other Players in the Thin-Film Sensors Industry

CHAPTER 8 COMPANY PROFILES

AMETEK INC.
BAUMER
GEMS SENSORS INC.
HERAEUS HOLDING GMBH
HONEYWELL INTERNATIONAL INC.
INFICON
INNOVATIVE SENSOR TECHNOLOGY (IST) AG
JIAXING JINGKONG ELECTRONIC
JUMO
LITTELFUSE INC.

NOVA BIOMEDICAL
RENLUX CRYSTAL
ROCHE DIAGNOSTICS
SENSING DEVICES
SD BIOSENSOR
TEKSCAN
TEMPERATURE SPECIALISTS INC.
VISHAY INTERTECHNOLOGY INC.
WIKA

CHAPTER 9 APPENDIX: LIST OF ACRONYMS

List Of Tables

LIST OF TABLES

Summary Table: Global Market and Technologies for Thin-Film Sensors, by Application, Through 2026

Table 1: Major Deposition Technique

Table 2: Thin-Film Deposition Processes and Thin-Film Sensors Technology Milestones

Table 3: Thin-Film Coating Technologies in Physical Process, 2020

Table 4: Thin-Film Coating Technologies in Chemical Process, 2020

Table 5: Thin-Film Coating Technologies in Hybrid Process, 2020

Table 6: Common Lithographic Method, 2020

Table 7: Printing Technologies

Table 8: Other Relevant R&D Activities

Table 9: The Nanotechnology Industry, by Product Group

Table 10: The Nanotechnology Industry, by Category

Table 11: Application of Thin-Film and Ultra-Thin-Film Materials

Table 12: Gas Sensor Technology Application

Table 13: National Ambient Air Quality Standards (U.S.)

Table 14: Global Market for Thin-Film Sensors, by Type, Through 2026

Table 15: Transmitter vs. Transducer

Table 16: Global Market for Thin-Film Pressure Sensor, by Application, Through 2026

Table 17: RTD Type and Properties

Table 18: British Standard for Thermocouple Color Code

Table 19: Global Market for Thin-Film Temperature Sensors, by Application, Through 2026

Table 20: Global Market for Thin-Film Humidity and Gas Sensors, by Application, Through 2026

Table 21: Global Market for Thin-Film Biochemical Sensors, by Application, Through 2026

Table 22: Global Market for Other Thin-Film Sensors, by Application, Through 2026

Table 23: Global Market for Thin-Film Sensors, by Application, Through 2026

Table 24: Global Market for Thin-Film Sensors in Automotive, by Type, Through 2026

Table 25: Global Market for Thin-Film Sensors in Automotive, by Region, Through 2026

Table 26: Global Market for Thin-Film Sensors in Healthcare, by Type,

Table 27: Global Market for Thin-Film Sensors in Healthcare, by Region, Through 2026

Table 28: Global Market for Industrial Thin-Film Sensors, by Type, Through 2026

Table 29: Global Market for Industrial Thin-Film Sensors, by Region, Through 2026

Table 30: Global Market for Thin-Film Sensors in Electronics, by Type, Through 2026

Table 31: Global Market for Thin-Film Sensors in Electronics, by Region, Through 2026

Table 32: Global Market for Thin-Film Sensors in Aerospace and Defense, by Type, Through 2026

Table 33: Global Market for Thin-Film Sensors in Aerospace and Defense, by Region, Through 2026

Table 34: Global Market for Other Thin-Film Sensors, by Type, Through 2026

Table 35: Global Market for Other Thin-Film Sensors, by Region, Through 2026

Table 36: Global Market for Thin-Film Sensors, by Region, Through 2026

Table 37: Americas Market for Thin-Film Sensors, by Region, Through 2026

Table 38: Americas Market for Thin-Film Sensors, by Application, Through 2026

Table 39: European Market for Thin-Film Sensors, by Country, Through 2026

Table 40: European Market for Thin-Film Sensors, by Application, Through 2026

Table 41: APAC Market for Thin-Film Sensors, by Country, Through 2026

Table 42: APAC Market for Thin-Film Sensors, by Application, Through 2026

Table 43: MEA Market for Thin-Film Sensors, by Region, Through 2026

Table 44: MEA Market for Thin-Film Sensors, by Application, Through 2026

Table 45: Leading Manufacturers of Thin-Film Sensors

Table 46: Leading Manufacturers of Thin-Film Sensors, by Type

Table 47: Other Relevant Industry Players

Table 48: AMETEK: Company Snapshot

Table 49: AMETEK: Market-Related Products

Table 50: AMETEK: Recent Developments

Table 51: Baumer: Company Snapshot

Table 52: Baumer: Market-Related Products

Table 53: GEMS Sensors: Company Snapshot

Table 54: GEMS Sensors: Market-Related Products

Table 55: Heraeus Holding: Company Snapshot

Table 56: Heraeus Holding: Market-Related Products

Table 57: Heraeus Holding: Recent Developments

Table 58: Honeywell International Inc.: Company Snapshot

Table 59: Honeywell International Inc.: Market-Related Products

Table 60: Inficon: Company Snapshot

Table 61: Inficon: Market-Related Products

Table 62: Innovative Sensor Technology: Company Snapshot

Table 63: Innovative Sensor Technology: Market-Related Products

Table 64: Innovative Sensor Technology: Recent Developments

Table 65: Jiaxing Jingkong Electronic: Company Snapshot

Table 66: Jiaxing Jingkong Electronic: Market-Related Products

Table 67: Jumo: Company Snapshot

Table 68: Jumo: Market-Related Products

Table 69: Jumo: Recent Developments

Table 70: Littelfuse Inc.: Company Snapshot

Table 71: Littelfuse Inc.: Market-Related Products

Table 72: Littelfuse Inc.: Recent Developments

Table 73: Nova Biomedical: Company Snapshot

Table 74: Nova Biomedical: Market-Related Products

Table 75: Renlux Crystal: Company Snapshot

Table 76: Renlux Crystal: Market-Related Products

Table 77: Roche Diagnostics: Company Snapshot

Table 78: Roche Diagnostics: Market-Related Products

Table 79: Sensing Devices: Company Snapshot

Table 80: Sensing Devices: Market-Related Products

Table 81: SD Biosensor: Company Snapshot

Table 82: SD Biosensor: Market-Related Products

Table 83: Tekscan: Company Snapshot

Table 84: Tekscan: Market-Related Products

Table 85: Tekscan: Recent Developments

Table 86: Temperature Specialists Inc.: Company Snapshot

Table 87: Temperature Specialists Inc.: Market-Related Products

Table 88: Vishay Intertechnology Inc.: Company Snapshot

Table 89: Vishay Intertechnology Inc.: Market-Related Products

Table 90: Vishay Intertechnology Inc.: Recent Developments

Table 91: Wika: Company Snapshot

Table 92: Wika: Market-Related Products

Table 93: List of Acronyms

List Of Figures

LIST OF FIGURES

- Summary Figure: Global Markets and Technologies For Thin-Film Sensors, 2020-2026
- Figure 1: Type of Thin-Film Sensors
- Figure 2: Basic Thin-Film Sensor Fabrication Steps
- Figure 3: Global Market Shares for Thin-Film Sensors, by Type, 2020
- Figure 4: Global Market Shares for Thin-Film Pressure Sensor, by Application, 2020
- Figure 5: Global Market Shares of Thin-Film Temperature Sensors, by Application, 2020
- Figure 6: Global Market Shares of Thin-Film Humidity and Gas Sensors, by Application, 2020
- Figure 7: Global Market Shares of Thin-Film Biochemical Sensors, by Application, 2020
- Figure 8: Global Market Shares of Other Thin-Film Sensors, by Application, 2020
- Figure 9: Global Market Shares of Thin-Film Sensors, by Application, 2020
- Figure 10: Global Market Shares of Thin-Film Sensors in Automotive, by Type, 2020
- Figure 11: Global Market Shares of Thin-Film Sensors in Automotive, by Region, 2020
- Figure 12: Global Market Shares of Thin-Film Sensors in Healthcare, by Type, 2020
- Figure 13: Global Market Shares of Thin-Film Sensors in Healthcare, by Region, 2020
- Figure 14: Global Market Shares of Industrial Thin-Film Sensors, by Type, 2020
- Figure 15: Global Market Shares of Industrial Thin-Film Sensors, by Region, 2020
- Figure 16: Global Market Shares of Thin-Film Sensors in Electronics, by Type, 2020
- Figure 17: Global Market Shares of Thin-Film Sensors in Electronics, by Region, 2020
- Figure 18: Global Market Shares of Thin-Film Sensors in Aerospace and Defense, by Technology, 2020
- Figure 19: Global Market Shares of Thin-Film Sensors in Aerospace and Defense, by Region, 2020
- Figure 20: Global Market Shares of Other Thin-Film Sensors, by Type, 2020
- Figure 21: Global Market Shares of Other Thin-Film Sensors, by Region, 2020
- Figure 22: Global Market Shares of Thin-Film Sensors, by Region, 2020
- Figure 23: Americas Market Shares of Thin-Film Sensors, by Region, 2020
- Figure 24: Americas Market Shares of Thin-Film Sensors, by Application, 2020
- Figure 25: European Market Shares of Thin-Film Sensors, by Country, 2020
- Figure 26: European Market Shares of Thin-Film Sensors, by Application, 2020
- Figure 27: APAC Market Shares of Thin-Film Sensors, by Country, 2020
- Figure 28: APAC Market Shares of Thin-Film Sensors, by Application, 2020
- Figure 29: MEA Market Shares of Thin-Film Sensors, by Region, 2020
- Figure 30: MEA Market Shares of Thin-Film Sensors, by Application, 2020
- Figure 31: AMETEK EIG: Net Sales Distribution, by Region/Country, 2020

Figure 32: Heraeus Holding: Revenue Share, by Region, 2020

Figure 33: Honeywell International Inc.: Net Sales Shares, by Region, 2020

Figure 34: Inficon: Net Sales Shares, by Region, 2020

Figure 35: Endress+Hauser Group: Net Sales Shares, by Region, 2020

Figure 36: Vishay Intertechnology Inc.: Net Sales Shares, by Region, 2020

I would like to order

Product name: Global Markets and Technologies for Thin-Film Sensors

Product link: <https://marketpublishers.com/r/G32C091C1603EN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G32C091C1603EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970