

Acoustic Wave Sensor Market by Type (Surface Acoustic Wave, Bulk Acoustic Wave), Device (Resonator, Delay Line), Sensing Parameter (Temperature, Pressure, Humidity), Vertical (Military, Automotive, Industrial) and Geography - Global Forecast to 2023

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Abstracts

“Global acoustic wave sensor market to exhibit significant growth between 2017 and 2023”

The acoustic wave sensor market is expected to grow at a CAGR of 10.7% between 2017 and 2023 to be worth USD 868.3 Million by 2023. The key driving factor for the growth of the acoustic wave sensor market is the growth of the SAW-based temperature sensors across various verticals due to their benefits such as accuracy, wide sensing temperature range, fast response rate, and low cost. However, the replacement of SAW-based sensors by other sensors in conventional applications is the major challenge in the market.

“Surface acoustic wave (SAW) sensors to dominate acoustic wave sensor market during forecast period”

SAW sensors held the largest size of the acoustic wave sensor market in 2016. SAW sensors are simple, rugged devices, which consist of a piezoelectric substrate in between two patterned electrodes to introduce and sense acoustic waves. SAW sensors are used to sense any change in frequency of waves associated with various parameters such as temperature, pressure, torque, and chemical vapors. SAW sensors are expected to hold the largest size of the acoustic wave sensor market by 2023 due to

the increasing demand of these sensors on the back of their capability to sense various parameters such as temperature, pressure, and humidity.

“Resonators to hold a major share of the acoustic wave sensor market based on device by 2023”

The market for the resonators is expected to grow at the highest CAGR between 2017 and 2023. SAW resonators can be visualized similar to crystal resonators. In SAW resonators, the generated acoustic wave is restricted to one surface of the piezoelectric substrate. SAW resonators are independent of the mass of the piezoelectric substrate and, therefore, are suitable for high-frequency applications. The high oscillation frequencies of resonators reduce the design cost and increase the simplicity of the resonators.

“Acoustic wave sensor market in APAC projected to grow at highest CAGR during forecast period”

The market in APAC is expected to exhibit the highest CAGR during the forecast period. The Asian markets, especially those in Japan, China, and India, are more likely to govern the acoustic wave sensor market in the coming years, in terms of adaptability and market size. India currently holds the largest share of the market in APAC owing to the higher adoption of acoustic wave sensors in various verticals such as food and beverages, and automotive, fueling the growth of the acoustic wave sensor market in this region.

The break-up of the profiles of primary participants for the report has been given below:

By Company Type: Tier 1 = 45%, Tier 2 = 30%, and Tier 3 = 25%

By Designation: C-Level Executives = 63% and Directors = 37%

By Region: North America = 33%, Europe = 23%, APAC = 32%, and RoW = 12%

The key players operating in the acoustic wave sensor market include Vectron International Inc. (US), Qualtre, Inc. (US), SENSEOR (France), Sensor Technology Ltd. (US), NanoTemper Technologies GmbH (Germany), Althen GmbH Mess- und Sensortechnik (Germany), Transense Technologies plc (UK), pro-micron GmbH & Co.

KG (Germany), H. Heinz Meßwiderstande GmbH (Germany), and Hawk Measurement Systems (Australia).

Research Coverage:

The research report on the global acoustic wave sensor market covers the market on the basis of type, device, sensing parameter, vertical, and geography. The market based on type has been segmented into surface acoustic wave (SAW) sensors and bulk acoustic wave (BAW) sensors. On the basis of devices, the acoustic wave sensor market has been classified into resonators and delay lines. The market, on the basis of sensing parameter, has been segmented into temperature, pressure, viscosity, humidity, chemical vapors/gas, humidity, torque, mass, and others. Further, the acoustic wave sensor market, on the basis of vertical, has been segmented into military, automotive, industrial, healthcare, food and beverages, environment, and others. The report segments the market in four major regions, namely, North America, Europe, APAC, and RoW.

Key Benefits of Buying the Report:

Illustrative segmentation, analysis, and forecast for the market based on type, devices, sensing parameter, vertical, and geography have been conducted to give an overall view of the acoustic wave sensor market.

The major drivers, restraints, opportunities, and challenges for the acoustic wave sensor market have been detailed in this report.

The report includes a detailed competitive landscape, along with key players, in-depth analysis, and revenue of the key players.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 YEARS CONSIDERED FOR STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Major secondary sources
 - 2.1.1.2 Secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary interviews with experts
 - 2.1.2.2 Breakdown of primaries
 - 2.1.2.3 Key data from primary sources
 - 2.1.3 SECONDARY AND PRIMARY RESEARCH
 - 2.1.3.1 Key industry insights
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.1.1 Approach for capturing the market share by bottom-up analysis (demand side)
 - 2.2.1.2 Approach for capturing the market share with the help of various players in the value chain of the acoustic wave sensor market
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach for capturing the market share by top-down analysis (supply side)
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN ACOUSTIC WAVE SENSOR MARKET
- 4.2 ACOUSTIC WAVE SENSOR MARKET, BY TYPE (2017–2023)
- 4.3 ACOUSTIC WAVE SENSOR MARKET, BY SENSING PARAMETER (2017–2023)
- 4.4 ACOUSTIC WAVE SENSOR MARKET, BY VERTICAL AND REGION (2017)
- 4.5 ACOUSTIC WAVE SENSOR MARKET, BY GEOGRAPHY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 High demand for SAW-based temperature sensors from end-user verticals

5.2.1.2 Growing concern toward security and surveillance

5.2.2 RESTRAINTS

5.2.2.1 Technical issues associated with energy consumption, and sensitivity

5.2.3 OPPORTUNITIES

5.2.3.1 Immense scope for growth in automotive industry

5.2.4 CHALLENGES

5.2.4.1 Replacement of SAW-based sensors by other sensors in conventional applications

6 ACOUSTIC WAVE SENSOR MARKET, BY TYPE

6.1 INTRODUCTION

6.2 SAW SENSORS

6.2.1 RAYLEIGH SURFACE WAVE SENSORS

6.2.2 SH-SAW OR STW SENSORS

6.2.3 FPW SENSORS

6.3 BAW SENSORS

6.3.1 TSM SENSORS

6.3.2 SH-APM SENSORS

7 ACOUSTIC WAVE SENSOR MARKET ANALYSIS, BY DEVICE

7.1 INTRODUCTION

7.2 RESONATORS

7.3 DELAY LINES

8 ACOUSTIC WAVE SENSOR MARKET ANALYSIS, BY SENSING PARAMETER

- 8.1 INTRODUCTION
- 8.2 TEMPERATURE
- 8.3 PRESSURE
- 8.4 HUMIDITY
- 8.5 CHEMICAL VAPOR/GAS
- 8.6 TORQUE
- 8.7 MASS
- 8.8 VISCOSITY
- 8.9 OTHERS

9 ACOUSTIC WAVE SENSOR MARKET ANALYSIS, BY VERTICAL

- 9.1 INTRODUCTION
- 9.2 MILITARY
- 9.3 AUTOMOTIVE
- 9.4 INDUSTRIAL
- 9.5 HEALTHCARE
- 9.6 FOOD AND BEVERAGES
- 9.7 ENVIRONMENT
- 9.8 OTHERS

10 GEOGRAPHIC ANALYSIS

- 10.1 INTRODUCTION
- 10.2 NORTH AMERICA
 - 10.2.1 US
 - 10.2.2 CANADA
 - 10.2.3 MEXICO
- 10.3 EUROPE
 - 10.3.1 UK
 - 10.3.2 GERMANY
 - 10.3.3 FRANCE
 - 10.3.4 REST OF EUROPE
- 10.4 APAC
 - 10.4.1 CHINA
 - 10.4.2 JAPAN
 - 10.4.3 INDIA
 - 10.4.4 REST OF APAC

10.5 ROW

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 MARKET RANKING ANALYSIS: ACOUSTIC WAVE SENSOR MARKET, 2016

11.3 COMPETITIVE LEADERSHIP MAPPING

11.3.1 VISIONARY LEADERS

11.3.2 DYNAMIC DIFFERENTIATORS

11.3.3 INNOVATORS

11.3.4 EMERGING COMPANIES

11.4 COMPETITIVE BENCHMARKING

11.4.1 STRENGTH OF PRODUCT PORTFOLIO

11.4.2 BUSINESS STRATEGY EXCELLENCE

Top 25 Companies analyzed for this study are - Abracon LLC (US), Althen GmbH Mess- und Sensortechnik (Germany), Boston Piezo-Optics Inc. (US), Hawk Measurement System (Australia), H. Heinz Me?widerst?nde GmbH (Germany), Honeywell International Inc. (US), NanoTemper Technologies GmbH (Germany), pro-micron gmbh & Co. KG (Germany), Qualtre Inc. (US), SENSEOR SAS (France), Sensor Technology Ltd. (US), STMicroelectronics (Switzerland), Transense Technologies plc (UK), Vectron International Inc. (US), Murata Manufacturing Co., Ltd. (Japan), AVX Corporation (US), TELEDYNE TECHNOLOGIES, INC. (US), SenSanna (US), DJB Instruments Ltd. (UK), Siemens AG (Germany), TDK Corporation (Japan), Precision Acoustics Ltd. (UK), LORD MicroStrain (US), Biosensor Applications Sweden AB (Sweden), Defiant Technologies (US)

11.5 COMPETITIVE SITUATIONS AND TRENDS

12 COMPANY PROFILES

(Business Overview, Product Offering Scorecard, Business Strategy Scorecard, Recent Developments, and Key Relationships)*

12.1 INTRODUCTION

12.2 ALTHEN GMBH MESS- UND SENSORTECHNIK

12.3 NANOTEMPER TECHNOLOGIES GMBH

12.4 H. HEINZ ME?WIDERST?NDE GMBH

12.5 TRANSENSE TECHNOLOGIES PLC

- 12.6 PRO-MICRON GMBH & CO. KG
- 12.7 VECTRON INTERNATIONAL INC.
- 12.8 QUALTRE INC.
- 12.9 SENSEOR SAS
- 12.10 SENSOR TECHNOLOGY LTD.
- 12.11 HAWK MEASUREMENT SYSTEMS
- 12.12 KEY INNOVATORS
 - 12.12.1 ABRACON LLC
 - 12.12.2 BOSTON PIEZO-OPTICS INC.
 - 12.12.3 STMICROELECTRONICS N.V.
 - 12.12.4 PRECISION ACOUSTICS LTD.
 - 12.12.5 SENSANNA INCORPORATED

*Details on Business Overview, Product Offering Scorecard, Business Strategy Scorecard, Recent Developments, and Key Relationships might not be captured in case of unlisted companies.

13 APPENDIX

- 13.1 INSIGHTS OF INDUSTRY EXPERTS
- 13.2 DISCUSSION GUIDE
- 13.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 13.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 13.5 AVAILABLE CUSTOMIZATIONS
- 13.6 RELATED REPORTS
- 13.7 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 ACOUSTIC WAVE SENSOR MARKET IN TERMS OF VALUE, 2014–2023 (USD MILLION)

Table 2 ACOUSTIC WAVE SENSOR MARKET, BY TYPE, 2014–2023 (USD MILLION)

Table 3 ACOUSTIC WAVE SENSOR MARKET, BY DEVICE, 2014–2023 (USD MILLION)

Table 4 ACOUSTIC WAVE SENSOR MARKET FOR RESONATORS, BY REGION, 2014–2023 (USD MILLION)

Table 5 ACOUSTIC WAVE SENSOR MARKET FOR DELAY LINES, BY REGION, 2014–2023 (USD MILLION)

Table 6 ACOUSTIC WAVE SENSOR MARKET, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 7 ACOUSTIC WAVE SENSOR MARKET FOR TEMPERATURE, BY VERTICAL, 2014–2023 (USD MILLION)

Table 8 ACOUSTIC WAVE SENSOR MARKET FOR TEMPERATURE, BY REGION, 2014–2023 (USD MILLION)

Table 9 ACOUSTIC WAVE SENSOR MARKET FOR PRESSURE, BY VERTICAL, 2014–2023 (USD MILLION)

Table 10 ACOUSTIC WAVE SENSOR MARKET FOR PRESSURE, BY REGION, 2014–2023 (USD MILLION)

Table 11 ACOUSTIC WAVE SENSOR MARKET FOR HUMIDITY, BY VERTICAL, 2014–2023 (USD MILLION)

Table 12 ACOUSTIC WAVE SENSOR MARKET FOR HUMIDITY, BY REGION, 2014–2023 (USD MILLION)

Table 13 ACOUSTIC WAVE SENSOR MARKET FOR CHEMICAL VAPOR/GAS, BY VERTICAL, 2014–2023 (USD MILLION)

Table 14 ACOUSTIC WAVE SENSOR MARKET FOR CHEMICAL VAPOR/GAS, BY REGION, 2014–2023 (USD MILLION)

Table 15 ACOUSTIC WAVE SENSOR MARKET FOR TORQUE, BY VERTICAL, 2014–2023 (USD MILLION)

Table 16 ACOUSTIC WAVE SENSOR MARKET FOR TORQUE, BY REGION, 2014–2023 (USD MILLION)

Table 17 ACOUSTIC WAVE SENSOR MARKET FOR MASS, BY VERTICAL, 2014–2023 (USD MILLION)

Table 18 ACOUSTIC WAVE SENSOR MARKET FOR MASS, BY REGION, 2014–2023 (USD MILLION)

Table 19 ACOUSTIC WAVE SENSOR MARKET FOR VISCOSITY, BY REGION, 2014–2023 (USD MILLION)

Table 20 ACOUSTIC WAVE SENSOR MARKET FOR VISCOSITY, BY VERTICAL, 2014–2023 (USD MILLION)

Table 21 ACOUSTIC WAVE SENSOR MARKET FOR OTHERS, BY REGION, 2014–2023 (USD MILLION)

Table 22 ACOUSTIC WAVE SENSOR MARKET, BY VERTICAL, 2014–2023 (USD MILLION)

Table 23 ACOUSTIC WAVE SENSOR MARKET FOR MILITARY, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 24 ACOUSTIC WAVE SENSOR MARKET FOR MILITARY, BY REGION, 2014–2023 (USD MILLION)

Table 25 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 26 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE, BY APPLICATION, 2014–2023 (USD MILLION)

Table 27 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE, BY REGION, 2014–2023, USD MILLION

Table 28 ACOUSTIC WAVE SENSOR MARKET FOR INDUSTRIAL VERTICAL, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 29 ACOUSTIC WAVE SENSOR MARKET FOR INDUSTRIAL VERTICAL, BY APPLICATION, 2014–2023 (USD MILLION)

Table 30 ACOUSTIC WAVE SENSOR MARKET BY INDUSTRIAL VERTICAL, 2014-2023 (USD MILLION)

Table 31 ACOUSTIC WAVE SENSOR MARKET FOR HEALTHCARE, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 32 ACOUSTIC WAVE SENSOR MARKET FOR HEALTHCARE, BY REGION, 2014–2023 (USD MILLION)

Table 33 ACOUSTIC WAVE SENSOR MARKET FOR FOOD AND BEVERAGES, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 34 ACOUSTIC WAVE SENSOR MARKET FOR FOOD AND BEVERAGES, BY REGION, 2014–2023 (USD MILLION)

Table 35 ACOUSTIC WAVE SENSOR MARKET FOR ENVIRONMENT, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 36 ACOUSTIC WAVE SENSOR MARKET FOR ENVIRONMENT VERTICAL, BY REGION, 2014–2023 (USD MILLION)

Table 37 ACOUSTIC WAVE SENSOR MARKET FOR OTHERS, BY REGION, 2014–2023 (USD MILLION)

Table 38 ACOUSTIC WAVE SENSOR MARKET, BY GEOGRAPHY, 2014–2023 (USD

MILLION)

Table 39 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA, BY DEVICE, 2014–2023 (USD MILLION)

Table 40 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 41 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA, BY VERTICAL, 2014–2023 (USD MILLION)

Table 42 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA FOR INDUSTRIAL VERTICAL, BY APPLICATION, 2014–2023 (USD MILLION)

Table 43 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA FOR AUTOMOTIVE, BY APPLICATION, 2014–2023 (USD MILLION)

Table 44 ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA, BY COUNTRY, 2014–2023 (USD MILLION)

Table 45 ACOUSTIC WAVE SENSOR MARKET IN EUROPE, BY DEVICE, 2014–2023 (USD MILLION)

Table 46 ACOUSTIC WAVE SENSOR MARKET IN EUROPE, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 47 ACOUSTIC WAVE SENSOR MARKET IN EUROPE, BY VERTICAL, 2014–2023 (USD MILLION)

Table 48 ACOUSTIC WAVE SENSOR MARKET IN EUROPE FOR INDUSTRIAL VERTICAL, BY APPLICATION, 2014–2023 (USD MILLION)

Table 49 ACOUSTIC WAVE SENSOR MARKET IN EUROPE FOR AUTOMOTIVE, BY APPLICATION, 2014–2023 (USD MILLION)

Table 50 ACOUSTIC WAVE SENSOR MARKET IN EUROPE, BY COUNTRY, 2014–2023 (USD MILLION)

Table 51 ACOUSTIC WAVE SENSOR MARKET IN APAC, BY DEVICE, 2014–2023 (USD MILLION)

Table 52 ACOUSTIC WAVE SENSOR MARKET IN APAC, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 53 ACOUSTIC WAVE SENSOR MARKET IN APAC, BY VERTICAL, 2014–2023 (USD MILLION)

Table 54 ACOUSTIC WAVE SENSOR MARKET IN APAC FOR INDUSTRIAL VERTICAL, BY APPLICATION, 2014–2023 (USD MILLION)

Table 55 ACOUSTIC WAVE SENSOR MARKET IN APAC FOR AUTOMOTIVE, BY APPLICATION, 2014–2023 (USD MILLION)

Table 56 ACOUSTIC WAVE SENSOR MARKET IN APAC, BY COUNTRY, 2014–2023 (USD MILLION)

Table 57 ACOUSTIC WAVE SENSOR MARKET IN ROW, BY DEVICE, 2014–2023 (USD MILLION)

Table 58 ACOUSTIC WAVE SENSOR MARKET IN ROW, BY SENSING PARAMETER, 2014–2023 (USD MILLION)

Table 59 ACOUSTIC WAVE SENSOR MARKET IN ROW, BY VERTICAL, 2014–2023 (USD MILLION)

Table 60 ACOUSTIC WAVE SENSOR MARKET IN ROW FOR INDUSTRIAL VERTICAL, BY APPLICATION, 2014–2023 (USD MILLION)

Table 61 ACOUSTIC WAVE SENSOR MARKET IN ROW FOR AUTOMOTIVE, BY APPLICATION, 2014–2023 (USD MILLION)

Table 62 MARKET RANKING OF TOP 5 PLAYERS IN ACOUSTIC WAVE SENSOR MARKET, 2016

List Of Figures

LIST OF FIGURES

Figure 1 ACOUSTIC WAVE SENSOR MARKET: MARKETS COVERED

Figure 2 ACOUSTIC WAVE SENSOR MARKET: RESEARCH DESIGN

Figure 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

Figure 5 DATA TRIANGULATION

Figure 6 ACOUSTIC WAVE SENSOR MARKET, 2014–2023 (USD MILLION)

Figure 7 ACOUSTIC WAVE SENSOR MARKET, BY TYPE, 2017 AND 2023

Figure 8 RESONATORS TO HOLD LARGER SIZE OF ACOUSTIC WAVE SENSOR MARKET, 2017 AND 2023

Figure 9 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE TO GROW AT HIGHEST CAGR BETWEEN 2017 AND 2023

Figure 10 ACOUSTIC WAVE SENSOR MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 11 DEMAND IN AUTOMOTIVE VERTICAL EXPECTED TO CREATE ATTRACTIVE GROWTH OPPORTUNITIES IN ACOUSTIC WAVE SENSOR MARKET DURING THE FORECAST PERIOD

Figure 12 SAW SENSORS TO HOLD LARGER SIZE OF MARKET DURING FORECAST PERIOD

Figure 13 ACOUSTIC WAVE SENSOR MARKET FOR TORQUE TO GROW AT HIGHEST CAGR BETWEEN 2017 AND 2023

Figure 14 NORTH AMERICA TO HOLD LARGEST SHARE OF ACOUSTIC WAVE SENSOR MARKET IN 2017

Figure 15 MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 16 INCREASING DEMAND FOR ACOUSTIC WAVE SENSORS IN AUTOMOTIVE VERTICAL DRIVES MARKET

Figure 17 ACOUSTIC WAVE SENSOR MARKET, BY TYPE

Figure 18 ACOUSTIC WAVE SENSOR MARKET FOR SAW SENSORS TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

Figure 19 ACOUSTIC WAVE SENSOR MARKET, BY DEVICE

Figure 20 ACOUSTIC WAVE SENSOR MARKET FOR RESONATORS IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 21 ACOUSTIC WAVE SENSOR MARKET: BY SENSING PARAMETER

Figure 22 ACOUSTIC WAVE SENSOR MARKET FOR TORQUE TO GROW AT HIGHEST CAGR BETWEEN 2017 AND 2023

Figure 23 ACOUSTIC WAVE SENSOR, BY VERTICAL

Figure 24 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE TO GROW AT HIGHEST CAGR BETWEEN 2017 AND 2023

Figure 25 ACOUSTIC WAVE SENSOR MARKET FOR AUTOMOTIVE TORQUE MEASUREMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 26 ACOUSTIC WAVE SENSOR MARKET FOR FOOD AND BEVERAGES FOR TEMPERATURE SENSING TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 27 ACOUSTIC WAVE SENSOR MARKET, BY GEOGRAPHY

Figure 28 GEOGRAPHIC SNAPSHOT OF ACOUSTIC WAVE SENSOR MARKET (2017)

Figure 29 ACOUSTIC WAVE SENSOR MARKET IN APAC TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

Figure 30 SNAPSHOT OF ACOUSTIC WAVE SENSOR MARKET IN NORTH AMERICA

Figure 31 MARKET IN EUROPE FOR AUTOMOTIVE SEGMENT FOR TIRE PRESSURE MONITORING SYSTEM TO GROW AT HIGHEST CAGR BETWEEN 2017 AND 2023

Figure 32 SNAPSHOT OF ACOUSTIC WAVE SENSOR IN APAC

Figure 33 PRODUCT LAUNCHES AND DEVELOPMENTS AS KEY GROWTH STRATEGIES ADOPTED BY COMPANIES BETWEEN 2014 AND 2015

Figure 34 ACOUSTIC WAVE SENSOR MARKET (GLOBAL), COMPETITIVE LEADERSHIP MAPPING, 2017

Figure 35 MARKET EVOLUTION FRAMEWORK: PRODUCT LAUNCHES AND DEVELOPMENTS FUELED GROWTH OF ACOUSTIC WAVE SENSOR MARKET (2014–2015)

Figure 36 PRODUCT LAUNCHES AND DEVELOPMENTS AS KEY STRATEGY ADOPTED BY COMPANIES

Figure 37 TRANSENSE TECHNOLOGIES PLC: COMPANY SNAPSHOT

Figure 38 VECTRON INTERNATIONAL INC.: COMPANY SNAPSHOT

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