Data acquisition is the process of sampling signals that measure real world physical conditions and converting the resulting samples into digital numeric values that can be manipulated by a computer. Data acquisition systems, abbreviated by the acronyms DAS or DAQ, typically convert analog waveforms into digital values for processing. The components of data acquisition systems include:

- Sensors, to convert physical parameters to electrical signals.
- Signal conditioning circuitry, to convert sensor signals into a form that can be converted to digital values.
- Analog-to-digital converters, to convert conditioned sensor signals to digital values.

Data acquisition applications are usually controlled by software programs developed using various general purpose programming languages such as Assembly, BASIC, C, C++, C#, Fortran, Java, LabVIEW, Lisp, Pascal, etc. Stand-alone data acquisition systems are often called data loggers.

The global Data Acquisition Systems market was valued at xx million US$ in 2018 and will reach xx million US$ by the end of 2025, growing at a CAGR of xx% during 2019-2025.

This report focuses on Data Acquisition Systems volume and value at global level, regional level and company level. From a global perspective, this report represents overall Data Acquisition Systems market size by analyzing historical data and future prospect.

Regionally, this report categorizes the production, apparent consumption, export and import of Data Acquisition Systems in North America, Europe, China, Japan, Southeast Asia and India.

For each manufacturer covered, this report analyzes their Data Acquisition Systems manufacturing sites, capacity, production, ex-factory price, revenue and market share in global market.

The following manufacturers are covered:

- ACCES I/O Products, Inc
- ADLINK TECHNOLOGY
- AOIP
- AstroNova GmbH
- Avisaro AG
- BeanAir GmbH
- BMC Messsysteme GmbH
- BOVIAR SRL
- Data Translation
- DATEXEL SRL
- HBM Test and Measurement
- HGL Dynamics
- HIOKI E.E. CORPORATION
- INTELLIGENT INSTRUMENTATION, Inc
- Measurement Computing
- NATIONAL INSTRUMENTS
- Segment by Regions
  - North America
  - Europe
  - China
  - Japan
  - Southeast Asia
  - India
- Segment by Type
  - Multi-Channel
  - 16-channel
  - 32-channel
  - 56-channel
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