

Micro-module integrated data acquisition and control screen



Summary of Content

Micro-module integrated DAQ systems combine compact, modular hardware with data acquisition, signal conditioning, and control or visualization capabilities, often with wireless connectivity for flexible deployment.

Overview

A micro-module integrated data acquisition and control screen is a compact system designed to measure, record, and visualize physical or electrical signals while providing control interfaces. These systems integrate multiple functions into a small form factor, making them ideal for constrained or mobile environments. They typically include:

- Sensors and signal conditioning to capture voltage, current, temperature, pressure, or other physical phenomena .
- Data acquisition hardware capable of multi-channel input, high-resolution analog-to-digital conversion, and fast sampling rates .
- Integrated control or display screens for real-time monitoring, configuration, and interaction with the system.
- Wireless or wired connectivity (Wi-Fi, Bluetooth, USB, Ethernet) for remote data access and networked operation .

Key Features

- Ultra-compact and modular design: Systems like the microMA feature diameters as small as 24 mm, allowing installation directly next to sensors in tight spaces .

Article Content

DIAdem Data Acquisition and Control Module

The DIAdem Data Acquisition and Control (DAC) Module is a software add-on for DIAdem that provides single-point processing and

Microcontroller Based Data Acquisition System

Data acquisition systems (DAS) are the basis for building monitoring tools that enable supervision of local and remote systems. The

Data Acquisition (DAQ) Systems, Devices & Software

Whether you're capturing benchtop measurements or scaling to high-performance test systems, getting data into Python is critical. In

MECALC Products | QuantusSeries

Designed with modularity and precision in mind, these modules can be mixed and matched across DECA Q and MICRO Q

microMA

Thanks to an autonomous ultra-compact data acquisition system (DAS), recorder and signal conditioning system based on Wifi and

System 7100 - Data Acquisition System | Micro-Measurements

The Micro-Measurements System 7100 offers a comprehensive hardware and software solution for high-precision data acquisition,

Data Acquisition Systems | Micro-Measurements

Captured data can be quickly displayed, analysed and exported. PCBA analysis to IPC/JEDEC 9704A is integrated, just requiring a

Modular Data Acquisition System for Defence and Aerospace

Modular data acquisition system for defence & aerospace testing. Multi-channel DAQ with MIL-STD interfaces, high-speed

SLICE MICRO | Diversified Technical Systems

Compact modular data acquisition with built-in connectors, integrated signal conditioning, and onboard memory for demanding

Contact Us

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