

# **AX System Overview**

The AX system is a modular, flexible platform designed to perform a wide range of functions based on user requirements. Each module within the AX system is tailored to specific tasks, allowing users to configure and utilize only the modules they need — making AX a scalable and efficient solution for many different applications.

# **Configuration and Usage Options**

The AX system can be configured and used in three main ways, depending on the application environment:

### 1) PC-Based Operation

In this mode, a computer is used as the interface for display and data processing. The AXDLL software library provides access to a wide range of built-in functions and establishes communication between your PC and the connected modules.

### Communication Channels Supported:

- Ethernet
- o USB
- o RS232

#### Base Modules Required:

These serve as the primary communication gateways and identify connected modules.

- Ethernet Base
- o Wi-Fi Base
- USB Base
- o RS232 Base

#### Compatible Modules:

- Measurement Modules
- Auxiliary Modules
- o Functional Modules

### 2) Display Based Operation

AX Genel bakış Kao

Ideal for desktop, laboratory, workbench, or DIN-rail installations, this mode offers a standalone experience. With battery-powered options available, the system is also portable. The indicator unit automatically detects connected modules and provides a user-friendly control panel with full access to settings and real-time display.

# Compatible Modules:

- o Measurement Modules
- Auxiliary Modules
- o Functional Modules
- Data Transfer Modules
- o Protocol Modules

## 3) PLC or Robot Integration

For automation systems, protocol modules act as the base, providing seamless communication with PLCs or robotic systems.

#### Compatible Modules:

- Measurement Modules
- Auxiliary Modules
- Functional Modules
- Data Transfer Modules

#### **Measurement Modules**

Measurement modules are used to connect physical sensors or standardized probes, enabling the collection of high-resolution, high-speed measurement data. Available options include:

- 1. Inductive Probe Interface Module
- 2. Pneumatic Probe Measurement Module
- 3. Mitutoyo Digimatic Interface Module
- 4. Encoder Interface Module
- 5. RS232-Compatible Input Module
- 6. Analog-to-Digital Input Module for Analog Probes
- 7. RTD Temperature Probe Input Module
- 8. Thermocouple Temperature Probe Input Module
- 9. Wheatstone Bridge Module (commonly used for pressure and weight sensors)



# **Auxiliary Modules**

These modules are designed to extend system functionality or allow direct control in complex applications.

- 1. Galvanically Isolated Inputs
- 2. Galvanically Isolated Outputs
- 3. Foot Pedal Module
- 4. Pneumatic Valve Module
- 5. Barcode Reader Module
- 6. Magnetic Card Reader Module
- 7. Environmental Sensor Module

### **Functional Modules**

Functional modules add dedicated capabilities to your projects. Multiple functional modules can be used simultaneously to optimize workflows.

1. Leak Test Module