

# INDUSTRIAL CONTROL UNIT

Model No: LOGIC-CT200

## DATA SHEET



| Item                                                                                                                                                | Information                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Name                                                                                                                                                | 8 Channel Leak Detection Monitor        |
| Product Code                                                                                                                                        | LOGIC CT200 - 4A1 - X1 - Y2 - E1 - F101 |
| Base Product                                                                                                                                        | Controller LOGIC-CT200                  |
| Document Type                                                                                                                                       | Data sheet                              |
| Document Revision                                                                                                                                   | Rev. 1.0                                |
| Important: Read this complete manual before installation, commissioning, operation, calibration or servicing of the temperature and RH transmitter. |                                         |



## Overview

The LOGIC-CT200 is a compact industrial controller designed for monitoring, control, data logging, and Industrial IoT applications. It features a 4.3-inch TFT display with keypad navigation for easy operation and configuration. Built-in RS485, Ethernet, USB, and wireless connectivity enable seamless integration with field devices and cloud platforms. The controller supports remote monitoring, alarm management, and data logging, making it ideal for automation and industrial monitoring applications.

## Features, Applications and Technical Specifications

### Feature Highlights

- 4.3-inch TFT graphical display with 7-key navigation interface
- Real-time monitoring and control
- Integrated alarm and event management
- Configurable input/output architecture
- Industrial RS485 communication with Modbus RTU support
- Ethernet connectivity through LAN/WAN ports
- Cloud Connectivity (optional)
- Local data logging and USB data export
- Firmware Over-the-Air (FOTA) updates
- Password-protected configuration access
- Industrial panel mount design
- IP65 front protection
- Designed for continuous industrial operation

### Application Areas

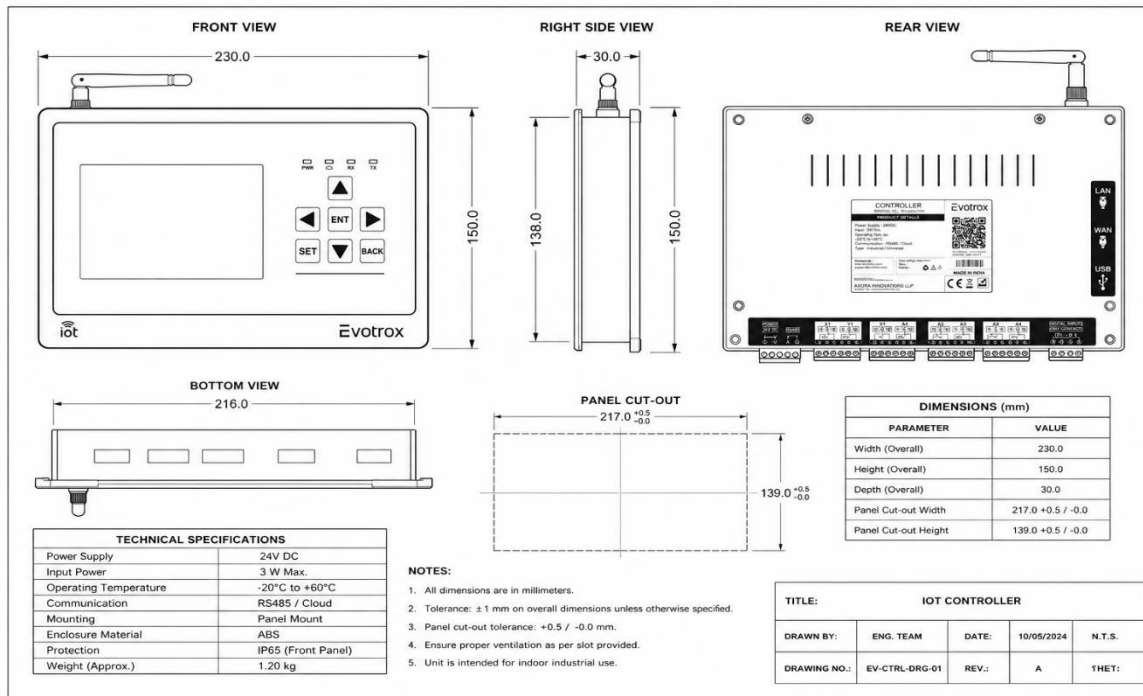
- Industrial automation
- Cold storage and refrigeration
- Pharmaceutical facilities
- Food processing plants
- Water and wastewater systems
- Building management systems
- Environmental monitoring
- Agriculture and greenhouses
- Utility monitoring
- Industrial IoT applications

### Technical Specifications

| Parameter              | Value                                                        |
|------------------------|--------------------------------------------------------------|
| Supply Voltage         | 24 VDC, < 10 W                                               |
| Display                | 4.3-inch TFT                                                 |
| Communication          | 2 x RS485, 1 LAN Port, 1 WAN Port                            |
| USB                    | USB data export                                              |
| Wireless Connectivity  | External antenna for supported wireless / cloud connectivity |
| Mounting               | Panel mount                                                  |
| Front Protection       | IP65                                                         |
| Dimensions (W x H x D) | 230 x 150 x 30 mm                                            |
| Panel Cutout           | 217 x 139 mm                                                 |
| Operating Use          | Indoor industrial panel installation                         |

## Product Images and Mechanical Drawings

### Dimensional Drawing



**Figur:Dimensional drawing and panel cut-out**

## Application Overview

The LOGIC-CT200 configured as an Ammonia Leak Detection Monitor is designed to monitor ammonia concentration from connected field sensors, generate alarms based on configured set values, operate assigned digital outputs, and communicate monitored data to external systems. This application profile defines the application-specific hardware code, firmware code, I/O structure, communication behaviour, wiring reference, settings, commissioning steps, and troubleshooting guidance.

| Parameter        | Details                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------|
| Title            | Ammonia Leak Detection Monitor                                                                             |
| Description      | Application profile for ammonia leak monitoring, alarm generation, output control, and data communication. |
| Hardware Details | LOGIC-CT200-4A1-X1-Y2-E1                                                                                   |
| Firmware Details | F101                                                                                                       |
| I/O Details      | 2 Ch DI<br>2 Ch DO<br>8 Ch AI                                                                              |
| Version Update   | Initial application profile release                                                                        |

## Application Features

- Supports up to 8 ammonia sensor channels.
- Configurable alarm, hysteresis, and acknowledgement functions.
- Controls fans, pumps, valves, hooters, and external alarms.
- RS485 Modbus RTU and Modbus TCP/IP communication support.
- Optional IoT cloud monitoring and remote access.
- Ideal for ammonia leak detection and safety systems.



## Ordering Information

Ordering format: LOGIC CT200 - 4A1 - X1 - Y2 - E1 - F101

| Code Segment | Description                                  |
|--------------|----------------------------------------------|
| LOGIC CT200  | Controller platform                          |
| 4A1          | Four AI-IV modules / 8 analog input channels |
| X1           | 2-channel digital input card                 |
| Y2           | 2-channel relay output card                  |
| E1           | IoT card / EdgeLink-100                      |
| F101         | Ammonia leak detection firmware code         |

### Card Variants

| Code | Title                   | Description                                                                                               |
|------|-------------------------|-----------------------------------------------------------------------------------------------------------|
| X1   | DI Card - 2CH           | 2 Ch Opto-Isolated Digital Input                                                                          |
| Y1   | DO Card - R1CH          | 1 Ch Relay Output                                                                                         |
| Y2   | DO Card - R2CH          | 2 Ch Relay Output                                                                                         |
| Y3   | DO Card - T2CH          | 2 Ch Transistor Output                                                                                    |
| A1   | AI Card - IV            | 2 Ch Configurable Active Analog Input:<br>0-1 V, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA                          |
| A2   | AI Card - RMV           | 1 Ch Configurable Passive Analog Input:<br>NTC Thermistor (10K), PT100, PT1000, CU50, T/C (J, K, R, S, T) |
| A3   | AO Card - 2CH           | 2 Ch Analog Output: 0-20 mA, 4-20 mA                                                                      |
| I1   | GSM Card                | GSM / 4G Module for Cellular Network                                                                      |
| E1   | IoT Card (EdgeLink-100) | IoT Card for Cloud Network Connectivity and IoT Application                                               |
| L1   | Lan Card                | Lan card for Internal Network                                                                             |

## Contact Information

| Company  | Details                   |
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