

Modbus Line Alarm System

AL200



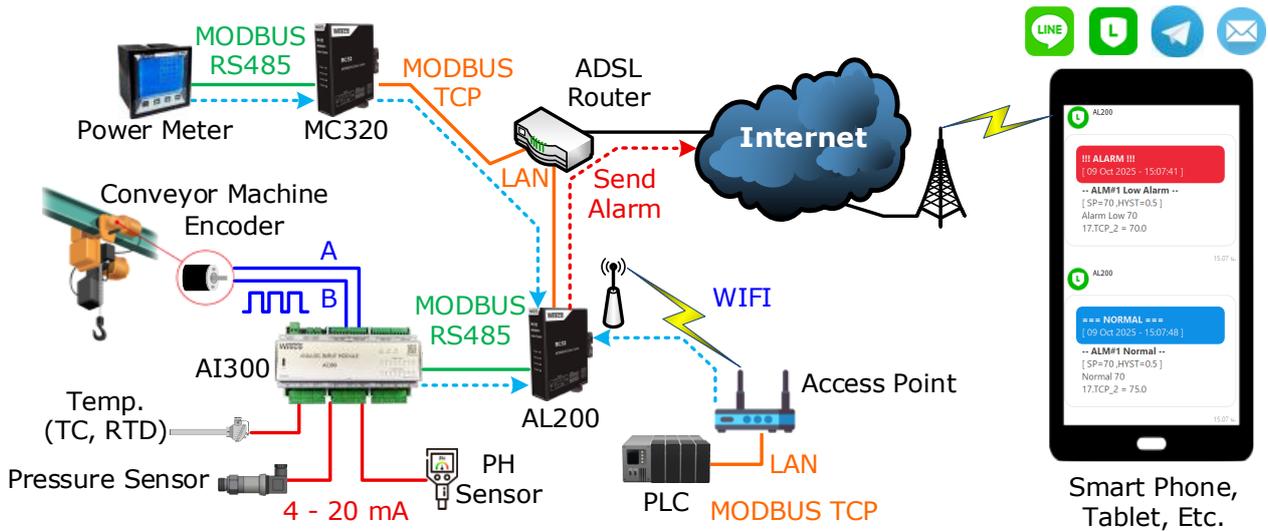
- Sending Alarm to LINE Messaging API, Telegram, E-Mail
- Programmable Alarm Message and Pictures
- Buffer 100 Alarm Message (Network Fail)
- Keep 80 Data as Tag (Max. 128 tags Option)
- Serial Interface (RS232/485 and Ethernet Interface (LAN or WI-FI)
- Support MODBUS ASCII, RTU, TCP/IP
- Provides MODBUS TCP Server
- Remappable MODBUS Register Address

Modbus Line Alarm System AL200 It is a device designed to send notification messages (Alarm) to LINE Messaging API, Telegram, E-Mail or WIsserv (Database). When the measured value is greater than or less than the pre-programmed value, the user can program a notification message and image through various web browsers.

In case the alarm cannot be sent, which may be due to a network problem (Network Failed), the AL200 can hold the data up to 100 alarms. When the network connection is re-established, the AL200 will automatically send the held alarm data.

AL200 reads values from devices by communicating via Modbus Protocol ASCII/RTU (RS232/485) and Modbus TCP/IP (LAN, WiFi) such as PLC, Power Meter, Analog Module, RTU, etc.

AL200 can also send the collected data to other devices for further reading purpose via the MODBUS TCP/IP protocol. It can also change the register address (Remappable MODBUS Register Address) by rearranging it as desired.



Specifications

WLAN Interface

WLAN Standards: 802.11a/b/g/n

Receiver Sensitivity for 802.11a:

-91 dBm @ 6 Mbps, -74 dBm @ 54 Mbps

Receiver Sensitivity for 802.11b:

-92 dBm @ 1 Mbps, -84 dBm @ 11 Mbps

Receiver Sensitivity for 802.11g:

-91 dBm @ 6 Mbps, -73 dBm @ 54 Mbps

Receiver Sensitivity for 802.11n:

-89 dBm @ 6.5 Mbps (20 MHz),

-71 dBm @ 72.2 Mbps (20 MHz)

Transmission Distance: Up to 100 Meters

(In Open Areas)

Security: WEP Open System, WEP Shared Key, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK Mixed Mode

Ethernet Interface

Speed: 10/100 Mbps, Full-Duplex or Half-Duplex, Auto MDI/MDIX

Connector: RJ45

Standard: 10 Base-T/100 Base-T Standard

Transmission: 100 m.

Protocols: TCP/IP, DHCP, HTTP, MODBUS TCP Server (Max. 8 Connection), MODBUS TCP Client (Max. 8 Connection)

Configuration: Web Console

Serial Interface

Serial Standards:

RS232 Through D-Type 9 Pin Connector (1 Port)

RS485 (Isolated) 5 Pin Terminal Block (2 Port)

Loading: RS485/422 Max 32 Unit

Distance:

RS232 Length 15 m.

RS485 Length 1 Km.

Protocol: MODBUS RTU, ASCII

Serial Parameter

Baud Rate: 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200

Data Bits: 7, 8

Stop Bit: 1, 2

Parity: None, Odd, Even

Power Requirements

Power Supply: 10 to 30 VDC

Consumption: 200 mA @ 12 VDC (2.4 W)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W98 x H135 x D30 mm.

Mounting: DIN Rail

Warranty

Warranty Period: 5 Year

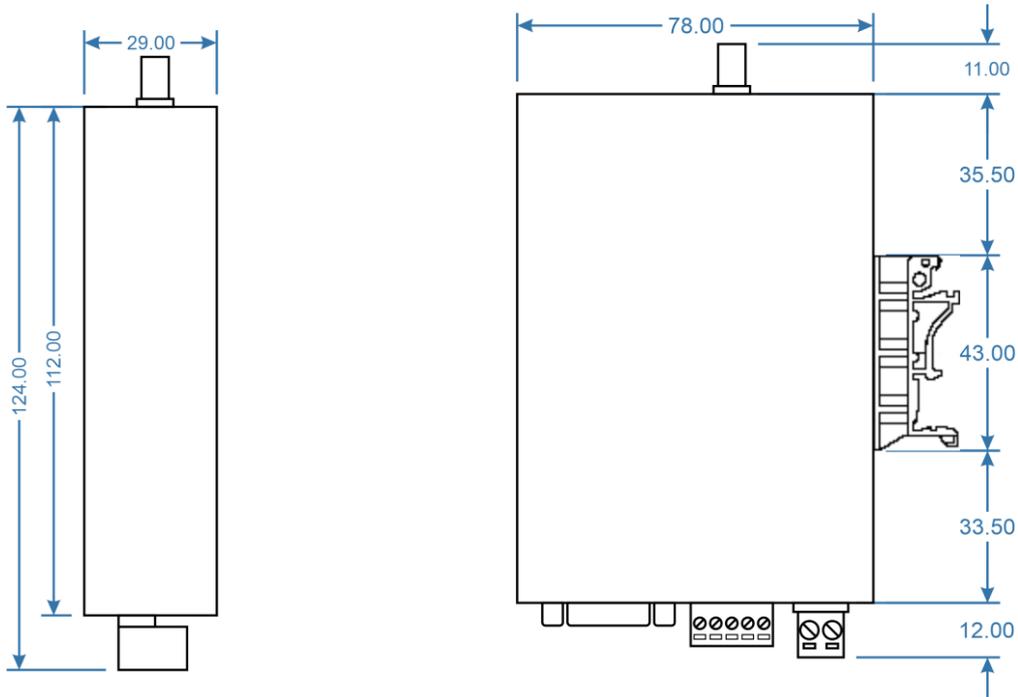
Ordering Information Specify Tag

Example AL200/80Tags

Package Checklist

1. AL200
2. LAN Cable
3. WIFI Antenna

Dimension (Unit: mm.)



 AL200

!!! ALARM !!!

[09 Oct 2025 - 15:07:41]

-- ALM#1 Low Alarm --

[SP=70 ,HYST=0.5]

Alarm Low 70

17.TCP_2 = 70.0

- ← Alarm Status (Alarm or Normal)
- ← Date and time of internal alarm occurrence on the device
- ← Alarm sequence and alarm status
- ← Configured conditions
- ← Configured message
- ← Sequence, tag name, and measured value

15.07 th.

 AL200

=== NORMAL ===

[09 Oct 2025 - 15:07:48]

-- ALM#1 Normal --

[SP=70 ,HYST=0.5]

Normal 70

17.TCP_2 = 75.0

15.07 th.

Example notification