

RM-AC1100

Advanced Control Devices
Two Universal Inputs | Two PID Loops

Description

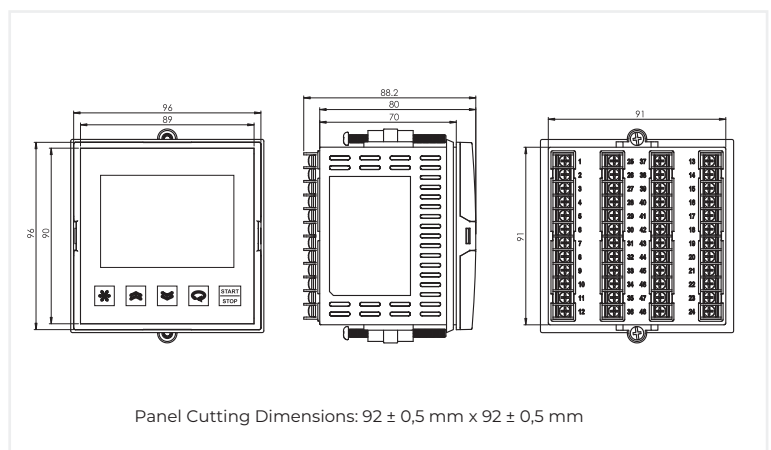
The AC1100 series devices are 96 x 96 mm industrial controllers designed for measuring and controlling physical variables such as temperature, pressure, speed, level, humidity, current, voltage, and resistance. They support ON/OFF and PID control and feature a fully modular design where every module can be independently configured.



General Features

- Display: 2 independent 3-line, 4-digit numeric LCD displays.
- Keypad: 4 capacitive touch keys for each of the two sensor inputs.
- Indicators: LED indicators for relay outputs.
- Transmitter Power: 2 Transmitter supply outputs (24VDC).
- Sensor Inputs: 2 Universal sensor inputs (TC, RT, mA, mV, V).
- Auxiliary Inputs: 2 Auxiliary analog inputs (0/4-20mA).
- Potentiometer Inputs: 2 Potentiometer inputs.
- Digital Inputs: 4 Digital inputs (15V).
- Analog Outputs: 2 Analog outputs (0/4-20mA, 0/2-10V).
- Communication: 2 RS485 communication units.
- Relay/Logic Outputs: 4 Relay or Logic outputs (24VDC).
- Power Supply: 100-240V AC/DC Universal or 24V AC/DC supply.
- Isolation: Isolation between input and output modules.

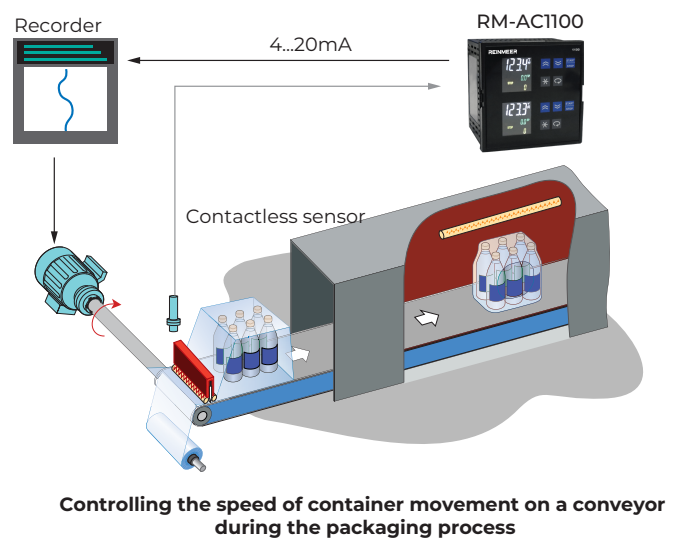
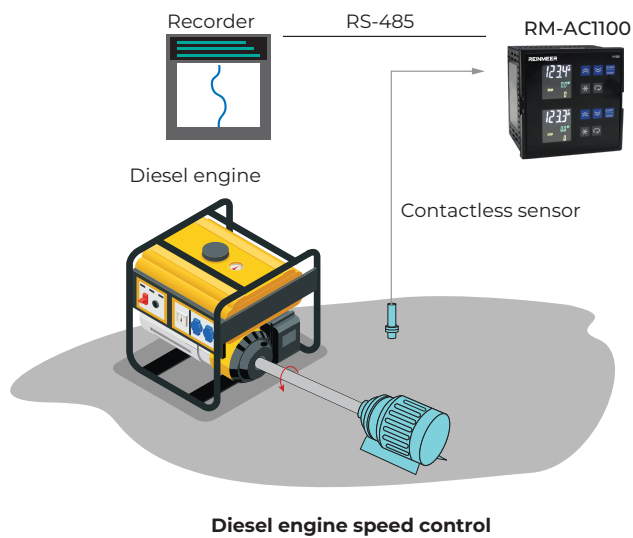
Device Dimensions



Applications

Food, Plastic, Iron & Steel, Chemical, Metallurgy, Cement, Ceramics, Petro-Chemistry, Refineries, Glass, and other industrial sectors.

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Technical Specifications

Supply Voltage (PS)	100-240 Vac/dc +10% -15% 24 Vac/dc +10% -20%
Power Consumption	6W, 10VA.
Sampling Time	100 ms.
Accuracy	+/- 0.2%.
Memory	100 years, 100,000 updates.
Ambient Temperature	Operating temperature: -10...+55°C Storage temperature: -20...+65°C
Protection class:	Front panel IP54 / Rear panel IP20
Mechanical Specifications	Width: 96 mm Height: 96 mm Depth: 78.2 mm Weight: 520 gr.

Functions and Control

Proportional Valve Control (With or Without Feedback).

PID Heating/Cooling and Auto-Tuning.

Automatic/Manual Operation Modes.

Sensor Failure Detection.

Remote Set Point and 4 Selectable Set Points.

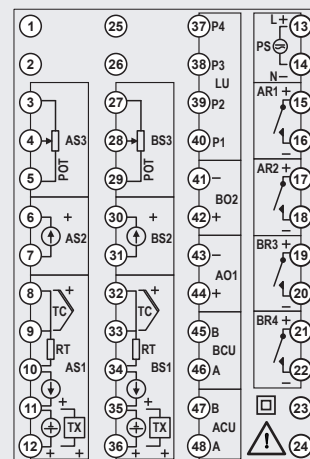
Ramp Function and Retransmission.

15 Different Relay Functions.

Master-Slave and Cascade Control Applications.

Configuration via Computer.

Electrical Wiring Diagram



Module	Description
AS1, BS1	Indicates the first and second universal sensor inputs. Input types are changed via the device.
AS2, BS2	0/4-20mA auxiliary analog input module (The function of this module can be selected via the device).
AS3, BS3	100-1500 Ω Potentiometer input module (The function of this module can be selected via the device).
LU	Logic input module.
ACU, BCU	RS485 MODBUS RTU module.
AO1, BO2	Analog output modules. (The content of this module is determined by the product code, while functions can be selected via the device).
AR1, AR2, BR3, BR4	Relay output modules. (The content of this module is determined by the product code, while the function is selected via the device).
PS	Power supply voltage input. (Supply voltage is determined by the product code).