ATR264 Cycle Temperature Controller

Overview

The ATR264 is a 1/8 DIN (48x48mm or approximately 1.88 x 1.88 inches) cycle temperature controller designed for precision thermal processing applications such as ovens, kilns, dryers, and heat treatment systems. It features PID control, support for programmable profiles, and a range of configurable outputs including relays, SSRs, and analog retransmission.

Designed for flexibility and ease of use, the ATR264 allows the programming of up to 15 cycles/profiles, each with a maximum of 30 ramp/soak/cooling segments. This makes it ideal for applications requiring time-based temperature control and repeatable process automation.

Built-in software functions include "Waiting" mode (to delay cycle start if the process variable is not aligned with the setpoint), and "Cycle Recovery" in case of power failure. A specialized version (-13ABC) offers extended support for gas kiln management.

Configuration and profile programming can be performed directly via the onboard keypad or remotely using the MyPixsys App (via NFC/RFID) or MyPixsysLab PC software. This streamlined interface supports both experienced users and operators with minimal training.

With its robust control features, intuitive setup, and compact footprint, the ATR264 is a versatile choice for cycle-based thermal applications requiring accuracy, repeatability, and user-friendly configuration.

Key Features

- Programmable analog input (TC, RTD, mA, V)
- Up to 3 relay outputs and 2 SSR (PNP) outputs
- Analog output for retransmission or control
- 15 Cycles which can have 30 step profile programming
- Manual/automatic tuning and HOLD function
- Modbus RTU communication (RS485)
- NFC programming via Android phone
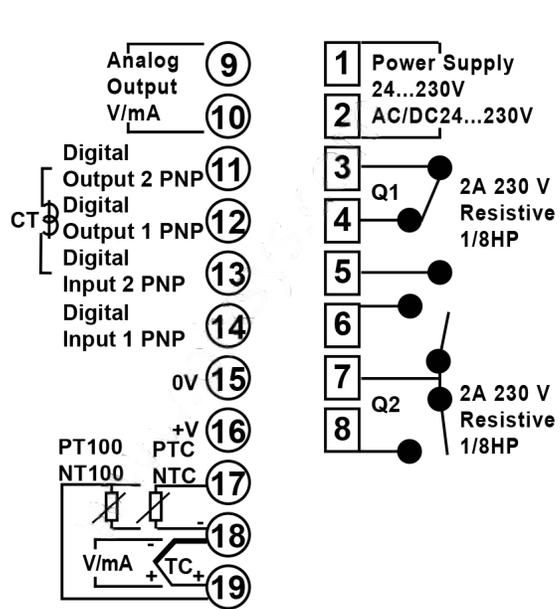
Technical Specifications

- Power Supply: 24-230 VAC/VDC ±15%
- Input Types: TC, RTD, mA, V, Potentiometer
- Display: 4-digit (0.52") and 5-digit (0.30")
- Output: Relay, SSR, Analog (V/mA)
- Protection: IP65 front, IP20 rear

- Operating Temperature: 0-45°C
- Accuracy: ±0.2% F.S. @ 25°C
- Dimensions: 48x48mm panel cutout
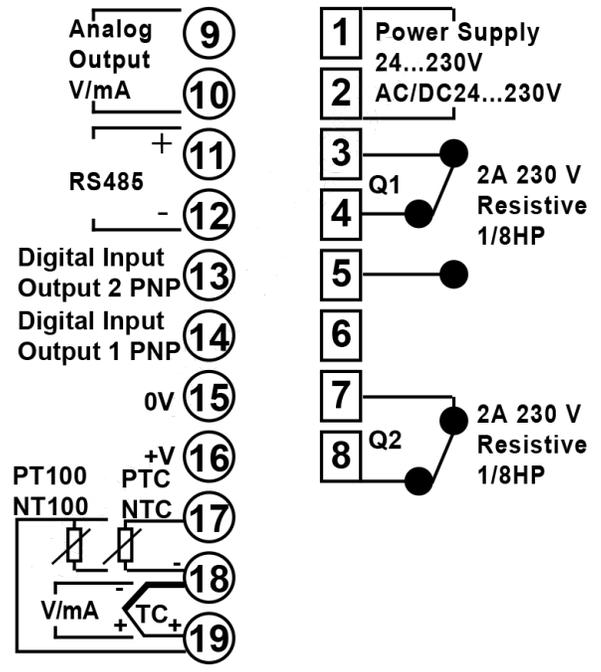- Weight: Approx. 185g
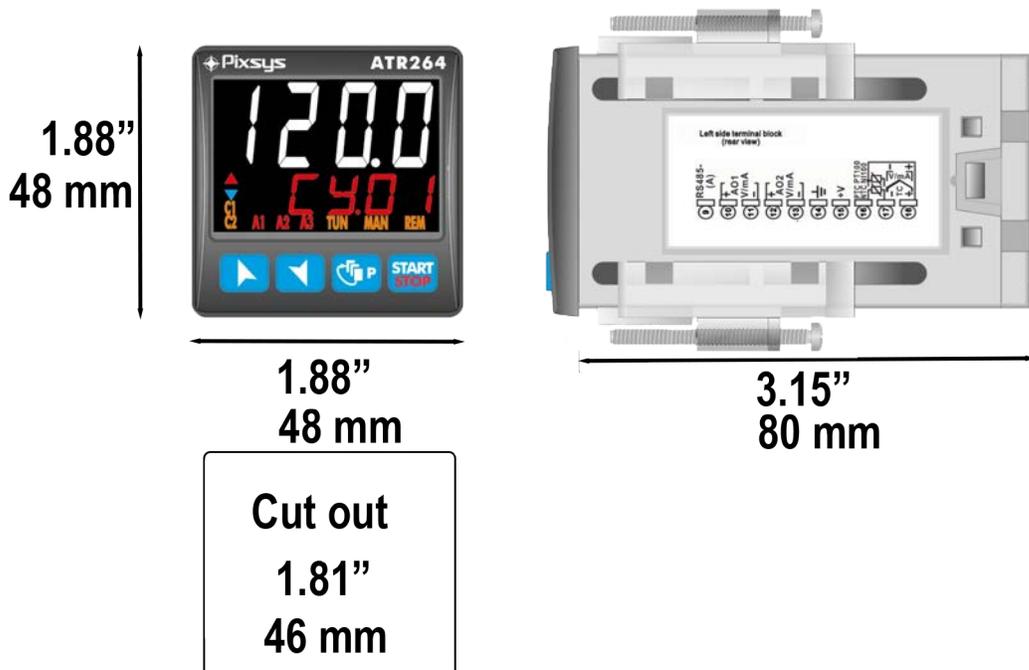- Modbus: RTU slave, isolated RS485

Wiring Diagram

ATR264-13ABC

ATR264-12ABC-T

Dimensions

1.88"
48 mm

1.88"
48 mm

3.15"
80 mm

Cut out
1.81"
46 mm

Model	Analog Inputs	Relays	SSR Outputs	Digital Inputs	Analog Outputs	CT Inputs	Modbus RS485
ATR264-12ABC-T	1	2	2	2	1 (V/mA)	-	Yes
ATR264-13ABC	1	3	2	2	1 (V/mA)	1	No