

DC1010CR-101000-E

DC1000 1/16 DIN Digital PID Controller with RTD Input

Honeywell DC1010CR-101000-E is a 48 x 48 mm DC1000 digital PID controller with RTD input, relay control output, one alarm relay, universal AC power and English documentation.

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell DC1000 Controllers

PART
DC1010CR-101000-E

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

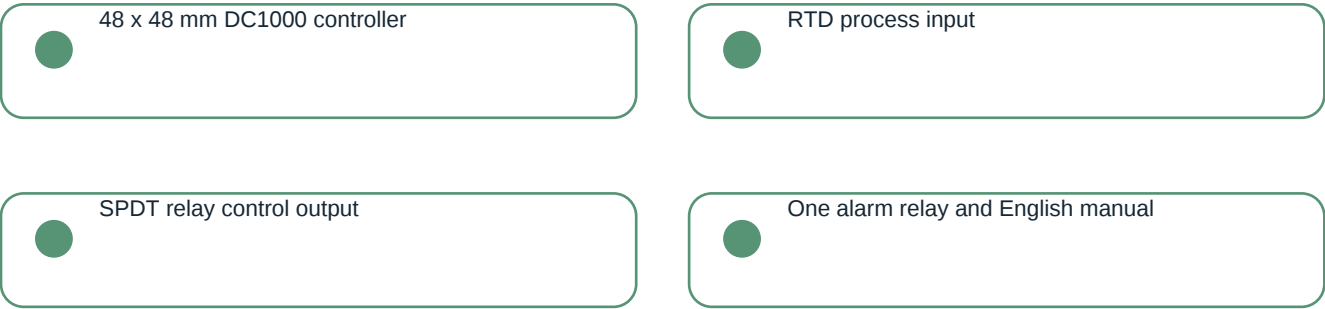
WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

DC1010CR-101000-E provides compact RTD-based temperature control, relay actuation and one alarm relay for a documented process loop.



SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
DC1010CR-101000-E operator interface	Matched automation controller
Documented field communications	Approved HMI project and runtime

ENGINEERING CONTEXT

The controller must remain matched to the installed RTD, relay load, alarm circuit and configured PID strategy. Commissioning restores the as-found parameters and proves indication, control and alarm response with a controlled input.

TECHNICAL DATA

PARAMETER	VALUE
Controller family	DC1000
Key number	DC1010CR
Panel format	1/16 DIN, 48 x 48 mm
Input type	RTD
Power selection	90 to 240 Vac; CE marked
Program function	None
Output 1	SPDT relay contact, 3 A at 240 Vac
Output 2	None
Alarm output	One alarm relay

PARAMETER	VALUE
Transmitter output	None
Remote setpoint input	None
Communication	None
Manual language	English
Control algorithms	PID, ON/OFF and configurable family functions
Input resolution	14 bit
PV sampling time	250 ms
Digital indication accuracy	+/-0.2% of full scale
Memory	Non-volatile EEPROM

RELATED PRODUCT PAGES

1 Honeywell 8C-PAON01

2 Honeywell 8C-PCNT01

3 Honeywell 8C-PCNT02

4 Honeywell 8C-PDIL51

5 Honeywell 8C-PDILA1

6 Honeywell 8C-IP0101

7 Honeywell 8C-PAIH51

8 Honeywell 8C-PAIHA1

9 Honeywell 8C-PAOHA1

TECHNICAL NOTE

Decode the complete order as DC1010CR plus Table I 101, Table II 000 and English manual code E. Preserve the RTD wiring, relay load, alarm logic, PID configuration and setpoint values before replacement; do not transfer settings from a thermocouple or linear-input DC1000.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Temperature control

Regulates a documented RTD-monitored thermal process.

Heater switching

Commands the approved relay-driven heating circuit.

Machine temperature indication

Displays and alarms the configured process value.

Legacy panel maintenance

Restores an exact DC1010CR execution and settings record.

PRODUCT PRECAUTIONS

1

Confirm DC1010CR-101000-E on the complete controller label.

2

Place the thermal process and final control element in the approved maintenance state.

3

Record the RTD wiring, relay load, alarm circuit and all controller parameters.

4

Isolate controller power and prove the output circuit safe before handling.

5

Match the 48 x 48 mm panel position, terminals and protective earth arrangement.

6

Restore the RTD type, scale, PID constants, setpoint, output and alarm configuration.

7

Review display, input and alarm indications after controlled energization.

8

Apply a controlled RTD simulation and record indication, output and alarm response before release.

ENGINEER FAQ

Q1 How is the exact DC1010CR-101000-E execution identified?

Decode DC1010CR with suffix 101000-E: 1/16 DIN RTD controller, relay output, one alarm relay and English manual.

Q2 What documented function does DC1010CR-101000-E perform?

It performs RTD-based PID or ON/OFF temperature control with relay actuation and alarm indication.

Q3 Which installed system must be matched before fitting DC1010CR-101000-E?

Match the installed RTD, relay-driven final element, alarm circuit and recorded control strategy.

Q4 Which interfaces must be recorded for DC1010CR-101000-E?

Record supply, RTD terminals, relay output, alarm wiring and every configured parameter.

Q5 What handling controls apply to DC1010CR-101000-E?

Isolate supply and load power, retain the as-found setup and protect the panel terminals.

Q6 What must be restored after installing DC1010CR-101000-E?

Restore sensor type, scale, setpoint, PID values, output action and alarm thresholds.

Q7 What evidence confirms DC1010CR-101000-E is ready for service?

Retain simulated-input indication, relay action, alarm and stable process-response results.

Q8 Which manufacturer record supports the DC1010CR-101000-E page?

Honeywell's DC1000 product record and model selection guide 51-51-16-76 Issue 19a document the family and complete ordering code.

RELATED APTER POWER PAGES

1 Honeywell 8C-PAON01

2 Honeywell 8C-PCNT01

3 Honeywell 8C-PCNT02

4 Honeywell 8C-PDIL51

5 Honeywell 8C-PDILA1

6 Honeywell 8C-IP0101

7 Honeywell 8C-PAIH51

8 Honeywell 8C-PAIHA1

9 Honeywell 8C-PAOHA1

SOURCE DC1000 Controllers and DC1000 Digital Controller Model Selection Guide | Honeywell publications 51-51-16-76 Issue 19a and DC1000 product record

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com