

DCP 300 Digital Controller Programmer

High Quality and Functionality at a Great Price

Superior Price/Performance Ratio in a 1/4 DIN package

The DCP 300 is a microprocessor-based 1/4 DIN controller programmer that combines high functionality, quality, and reliability at a great price. It supports up to 19 program profiles with up to 30 segments per profile. A universal input accepts thermocouple signals, resistance temperature detector (RTD) signals, DC voltages and DC currents. DCP 301 is a single channel programmer with one input and one loop of control, while the DCP 302 is a dual channel programmer with two inputs and two loops of control. A temperature and relative humidity calculation model is available on the DCP 302. The DCP 300 supports extensive digital I/O functions including 3 event outputs, 5 time events (optional), and up to 12 external switch inputs (8 of those are optional). Up to two auxiliary outputs can be added as options on certain models of the DCP 301. The DCP 302 has one optional auxiliary output available on certain models.

Programs / Segments – A maximum of 19 program profiles can be stored and up to 30 segments can be programmed to each profile.

Accurate – Input #1 accuracy is 0.1% FS, and input #2 accuracy is 0.2% FS. The high sampling time is 0.1 seconds.

Flexible – The DCP 300 can operate on any line voltage from 90 VAC to 264 VAC at 50/60 Hz. Input #1 is a universal input that can be field selectable for a number of different thermocouples, RTD, and linear inputs.

Digital Inputs – Up to 12 external switch inputs (4 standard and 8 optional) allow remote selection of program numbers or operation.



Event and Auxiliary Outputs – Three event relay outputs (standard) are available for PV, deviation, controller mode, or other state indications. Five time events (optional) of open collector outputs are also available for indication of time events and segment number events. Two auxiliary outputs are optionally available on certain models of the DCP 301, with one available on certain models of the DCP 302.

CE Mark – CE mark compliant applicable standards; EN61010-1, EN50081-2, EN50082-2.

Technical Data

Accuracy	Input #1 is 0.10% of span ± 1 LSD; Input #2 is 0.20% of span ± 1 LSD
Number of Programs/Segments	19 programs / 30 segments per program maximum
Segment Time	0 to 99 hours 59 minutes; or 0 to 99 minutes 59 seconds (time unit selectable)
Guaranteed Soak	Sets Guaranteed soak width 0 to 1000 U
Cycle	Sets program count 0 to 9999
Pattern Link	Sets program number 0 to 19 (0: no link)
Front Face Protection	Nema 1
Operating Temperature & RH	0 to 50°C / 32 to 122°F, relative humidity of 10% to 90%
PV Input	Input #1: Keyboard selectable: Thermocouple (R,S,J,T,K,B,N,E, W (Wre5-26), PR40-20, Ni-Ni-Mo, PL II, DIN U, NIN L, Golden-iron-chromel), RTD (PT100), Linear (0-20mA, 4-20mA, 0-10mV, -10-+10mV, 0-100mV, 0-50mV, 0-1V, -1-+1V, 0-5V, 1-5V, 0-10V,) Input #2: Keyboard selectable: Thermocouple (K), RTD (PT100), Linear (1-5V, 0-10V,)
Input Sampling Rate	10 times per second
Control Outputs	Output #1: Current-proportioning (0-20mA or 4-20mA), Time proportioning (SPDT relay 5A/120VAC resistive load), Position Proportional (SPST two circuits, relay 4A/120VAC) Output #2: Current-proportioning (0-20mA or 4-20mA)
Event Outputs	Events 1 & 2 (standard): SPST relay contact output 1A at 240VAC resistive load Event 3 (standard): SPDT relay contact output 2A at 240VAC resistive load
Time Event Outputs	5 maximum (optional): open collector outputs
Digital Inputs	12 maximum (4 standard and 8 optional)
Power Supply	90 to 264 VAC 50/60 Hz
Dimensions	Front face: 96 x 96 mm (3.8 x 3.8 inches) Depth: 160 mm (6.3 inches) maximum Panel cutout: 92 x 92 mm (3.6 x 3.6 inches)

The reliability, accuracy and quality of Honeywell's industry-proven LeaderLine™ family of controllers are second to none, offering the best total value of ownership.

Honeywell provides a complete line of temperature sensors including thermocouples, RTDs, and non-contact sensors that are compatible with the UDC 700 and other industrial control products.

TMLeaderLine is a trademark of Honeywell International Inc.

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