DCP 550 Digital Controller Programmer
Power for the most demanding applications

Premium Performance in a ½ DIN package

The DCP 550 series is a microprocessor-based ½ DIN controller programmer that combines superior functionality, quality, and reliability. The DCP 551 single channel unit supports up to 99 program profiles with up to 99 segments per profile, while the DCP 552 dual channel unit supports up to 49 dual program profiles with up to 99 segments per profile set. A universal input accepts thermocouple signals, resistance temperature detector (RTD) signals, DC voltages and DC currents. The DCP 551 single channel programmer is available with one or two inputs and has one loop of control. The DCP 552 is a dual channel programmer with two inputs and two loops of control. A carbon potential model is available on the DCP 552. The DCP 550 series supports extensive digital I/O functions including 16 digital inputs and 16 digital outputs. RS485 ASCII communications and up to two auxiliary outputs can also be added as options.

Programs / Segments – The DCP 551 can handle a maximum of 99 program profiles and up to 99 segments can be programmed to each profile. The DCP 552 can handle a maximum of 49 dual program profiles and up to 99 segments can be programmed to each profile set.

Accurate – Input accuracy is 0.1% FS. The high sampling time is 0.1 seconds.

Flexible – The DCP 550 series can operate on any line voltage from 90 VAC to 264 VAC at 50/60 Hz. Inputs are universal inputs that can be field selectable for a number of different thermocouples, RTD, and linear inputs.

Digital Inputs – Sixteen standard external switch inputs allow remote selection of program numbers or operation such as run, hold, reset, advance, auto/manual, PV ½ switching, direct/reverse acting, guaranteed soak cancel, etc.

Event and Auxiliary Outputs – Sixteen standard event open collector outputs are available for PV, deviation, controller mode, or other state indications, as well as time event indication of time events and segment number events. One or two auxiliary outputs are optionally available.

CE Mark – CD 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	DCP 551: 99 programs / 99 segments per program, 2000 segments maximum DCP 552: 49 dual programs / 99 segments per program, 2000 segments maximum
Segment Time	0.00 to 500.00 (hours / minutes, or minutes / seconds) per segment, or 0.0 to 3000.0 seconds per segment
Guaranteed Soak	Sets Guaranteed soak width 0 to 1000 U
Cycle	Sets program count 0 to 9999
Pattern Link	Sets program number 0 to 99 (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	Keyboard selectable: Thermocouple (R,S,J,T,K,B,N,E, W (Wre5-26), PR40-20, Ni-Ni-Mo, PL II, golden iron chromel), RTD (PT100), Linear (4-20mA, 0-10mV, -10-+10mV, 0-100mV, 0-50mV, 0-1V, -1-+1V, 0-5V, 1-5V, 0-10V,) Note: Input #2 is fixed for the oxygen sensor for models supporting carbon potential software in which case the oxygen sensor input is 0 to 1250 mV
Input Sampling Rate	10 times per second
Control Outputs	Current-proportioning (4-20mA) or Time proportioning (open collector)
Event Outputs	16 (standard) open collector
Digital Inputs	16 (standard)
Power Supply	90 to 264 VAC 50/60 Hz
Dimensions	Front face: 144 x 144 mm (5.76 x 5.76 inches) Depth: 188 mm (7.52 inches) maximum Panel cutout: 138 x 138 mm (5.52 x 5.52 inches)
Communications	RS485 or RS232C, ASCII, Half Duplex, Baud Rate: 1200, 2400, 4800, or 9600 bps

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.

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