

Welcome to DPC-20 Servo Actuator Test/Programmer

Thank you for choosing DPC-20, the versatile Servo Actuator Test/Programmer designed for easy access and user-friendly operation.

About DPC-20

The DPC-20 is an integrated programmer capable of testing and configuring Servo Actuators using PWM, TTL, RS485, and CAN communication protocols. Unlike traditional programmers, DPC-20 offers a unified platform to seamlessly interact with various Servo Actuator series.

Features:

- Compatible with PWM, TTL, RS485, and CAN communication protocols.
- Supports testing and configuration of a wide range of Hitec Servo Actuator series.

Software Downloads

Please find below the UI programs available for download, compatible with various Hitec Servo Actuator series:

Servo Actuator Series	Compatible Interface	UI Program	DPC UI HUB	Support Page
HS-5/7 Series	DPC-11, DPC-20	DPC UI	Download	Support Page
HSB-9 Series	DPC-11, DPC-20			
D/MD Series	DPC-11, DPC-20			
D/MD-485 Series	DPC-485, DPC-20			
CAN Series	DPC-CAN, DPC-20	AIO (All In One) UI		

NOTE: Please disconnect the USB cable from the DPC-20 and reconnect it when changing the UI.

Important Information

DPC-20:

- **Hardware Type:** PC USB-C to 3-pin (PWM/TTL) and 4-pin (RS485/CAN) interface.
- Capable of configuring and testing HITEC Digital Servo Actuators.
- Compatible with various control methods (PWM, RS485, CAN), offering a seamless transition from legacy DPC-11, DPC-485, and DPC-CAN units.
- Different Servo Actuator series require dedicated UI programs due to variations in communication protocols.

To test and configure Servo Actuators using the DPC-20, ensure you connect the appropriate power supply to the DPC-20 for the connected Servo Actuator.

(For servo actuators requiring more than 18V or the current exceeds 3A, please connect the power directly to the servo, not through the DPC-20.)

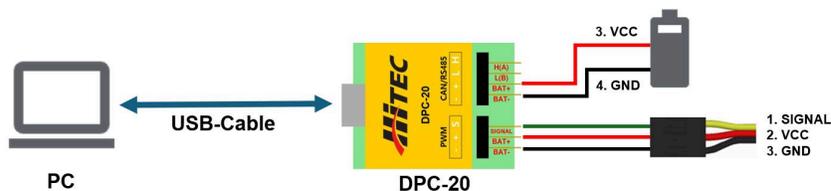
For Servo Actuators (5/7 Series, 9 Series, D/MD Series), connect to the 3-pin port on the DPC-20, and connect the power supply to the BAT- and BAT+ pins on the 4-pin port, paying careful attention to polarity.

For Servo Actuators (D/MD-485 Series, CAN Series), connect to the 4-pin port on the DPC-20, and connect the power supply to the BAT- and BAT+ pins on the 3-pin port, paying careful attention to polarity.

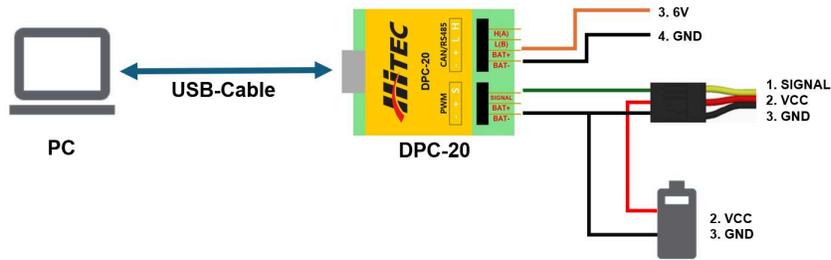
DPC-20 Wiring Diagrams

DPC-20 wiring can be categorized based on whether it uses 3Pin or 4Pin connections and whether the power is supplied to the servo via the DPC-20 or directly. For any voltage exceeding 18V or current exceeding 3A, use the direct connection method to prevent damage or malfunction.

1. 3Pin Connection via DPC-20



2. 3Pin Direct Connection



3. 4Pin Connection via DPC-20



4. 4Pin Direct Connection



Note - DPC-485:

- For non-D/MD-485 series, a dedicated UI may be required.
- When using DPC-20 as a replacement, simply connect to USB, wait for approximately 20 seconds, then open the COM port to resume normal operation.

DPC UI:

- Suitable for configuring and testing 5/7 Series, 9 Series, D/MD Series, and D/MD-485 Series Servo Actuators.

AIO (All In One) UI:

- Ideal for configuring HITEC CAN Servo Actuators (CAN & DroneCAN protocols), conducting basic operation tests, and firmware updates.
- Supports simultaneous connection of multiple Servo Actuators.
- Note: For units with firmware versions below 1.7 or without ID settings, connect only one unit at a time.
- Requires Microsoft DotNet Framework 4.
- Initial support introduced in DPC-20 version 2023_06_14, latest version recommended.

We sincerely appreciate your continued support and thank you for using our products!