

Pulse of HMI Protocol

HMI (Hitec Multi-protocol Interface) is a newly created interface for the HITEC programmable robot servos.
(For more detailed programming of the servos, an optional settings kit is required.)

*The following information can be of use to high-end users as it concerns the pulse data.

This pulse data is required for location (angle) feedback between HITEC robot servos and a PC.

The servos will execute a specified movement when four kinds of pulses are inputted from an outside source.

- 1) 50usec pulse width / Location (angle) value feedback
- 2) 100usec pulse width / Use servo parameter 1 value (default)
- 3) 150usec pulse width / Use servo parameter 2 value
- 4) 200usec pulse width / Use servo parameter 3 value

Note: To use the location (angle) feedback with an external circuit, the control signal terminal must have bidirectional functions. To read the feedback value, a pull-up process must be performed in the signal line.

Control signal 50usec



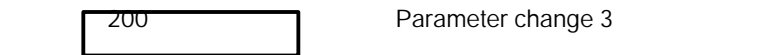
Control signal 100usec



Control signal 150usec



Control signal 200usec



Note: The feedback function has a 10% error rate since this function is used in conjunction with the PWM control.