

# RANGER

## CRANE RETROFIT SYSTEM



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### Features

Kar-Tech's wireless crane retrofit package is a simple way to add a radio remote to your manually controlled hydraulic crane without modifying any existing hydraulic valves. The package is supplied with electrical linear actuators to move the valves in both directions, and all hardware to connect the actuators to the valve handles. Two actuator controllers and a radio receiver are connected via a pre-made wiring harness and are responsible for translating commands from the wireless transmitter to operate the valves. With best in class response time and smooth operation, this is truly a hands-free solution. Mounting the hardware is a cakewalk - our illustrated manual will enable you to have the installation done in only a few hours. A PACKER series transmitter is the wireless control - four or six proportional paddles control the winch and boom, and additional toggle switches drive the auxiliary functions and boom speed selection. There is a keyswitch mounted on the side for turning the transmitter on and off, as well as starting the engine. Side-mounted, sealed pushbuttons are used for increasing and decreasing the engine RPM, as well as for the horn. Enable buttons are on the transmitter, and are required to be pressed in order to operate the crane, as a safety feature along with the Emergency Stop switch. Kar-Tech's radios communicate within the 900 MHz frequency band and use frequency hopping technology with ID-coded transmissions to prevent interference and cross-talk. When and where wireless control isn't permitted, an optional cable links the transmitter to the truck for instantaneous wired-only control. This control is built tough - all electronics are silicone dip-coated or encapsulated, every switch, joystick, and enclosure is sealed, and the transmitter is molded out of a high-impact rated plastic ready to take a beating on the job site. If you need additional functionality, custom configurations are available by request.

### General

Supply Voltage	9V to 30VDC
Actuators	60# force, 2" travel, 12 or 24V

### Transmitter

Weight	3.1 lb.
Operating Temperature	-40° to +85° C
Storage Temperature	-40° to +100° C
Ingress Protection	IP65 nominal - varies with custom configurations
Housing Material	High impact thermoplastic
Control Options	Up to 2 single or dual axis joysticks or 4/6 single axis paddles, E-Stop switches, toggle switches, pushbuttons, and side mounted keyswitches or pushbuttons available as well.
Frequency	900 MHz FHSS
Battery	Rechargeable high-capacity NiMH pack provides 20+ hours operation time, and a full charge in 1 hr. with low-battery and charging status lights
Wireless Range	Up to 1000' line of sight



The system is supplied with a fully illustrated, step-by-step installation and operation manual as well as:

