

PILOT

RADIO TRANSMITTERS



PILOT

RADIO TRANSMITTERS



Features

The PILOT series radio transmitter builds on the great success of the GUIDER series in the material handling industry, and updates it with a more ergonomic form factor and more room for switches and dials. The transmitter housing is made from a special high-impact plastic designed to take a beating, and all sealed components and silicone dipped electronics protect against the elements. Optionally packaged with a proportional trigger, the PILOT has a standard CAN cable connection to allow the operator to seamlessly switch over to a wired mode in case of situations where RF isn't permitted or poor atmospheric conditions - the same cable will charge the rechargeable battery. The PILOT is available with internal rechargeable batteries, or a sealed battery compartment that will accept AA batteries. Like all Kar-Tech's other controls, FHSS technology virtually eliminates interference, and our standard radio modules provide up to 1000' or more range when used line-of-sight.

General	
Weight	1.75 lb.
Operating Temperature	-40° to +85° C -20° to +70° C with LCD display
Storage Temperature	-40° to +100° C -30° to +80° C with LCD display
Ingress Protection	IP65 nominal - varies with custom configurations
Housing Material	High impact thermoplastic
Control Options	Toggle switches, E-Stop switches, toggle switches, pushbuttons, potentiometers, thumbwheels, or proportional trigger with trigger guard.
Certification	FCC, IC, C-Tick, others on request
Optional Display	2x16 character backlit LCD display

Power	
Battery Type	Internal rechargeable smart NiMH battery or 4 AA in a sealed compartment
Operating Time	20-60 hours, depends on configuration

RF2CAN Receiver	
Frequency	900 MHz FHSS or 2.4GHz DSSS
Output	CAN - SAE-J1939 & CANOpen
Range	300m nominal
Power	9 - 30VDC
Physical	3.5"x2"x4.1", 0.8 lb., UL94 - HB High impact plastic

Mini Receiver	
I/O	Up to 9 solid state outputs, 5A max
Frequency	900 MHz FHSS, 10mW output power, -100dBm receiver sensitivity
Range	100m nominal, greater line of sight
Power	12/24 VDC nominal, +9 to +35 VDC min/max
Physical	2.5" x 2.5" x .9", 1.8 lb., Encapsulated UL94 ABS plastic

VC-93/99/125 Receiver	
I/O	Up to 36 inputs (analog/digital) and 36 outputs (analog/digital), 5A max, with 100VDC protection
Frequency	900 MHz FHSS, 33mW output power -114dBm receiver sensitivity 2.4 GHz DSSS, 100mW output power -92dBm receiver sensitivity
Range	300m nominal, greater line of sight
Power	12/24 VDC nominal, +9 to +35 min/max
Physical	VC-93 - 5.2" x 4.6" x 1.4", 0.8 lb., High temperature nylon VC-99/125 - 5.55" x 5.75" x 2.02", 1.0 lb., Glass-filled polymer

Industrial Receiver	
I/O	Up to 9 relay outputs, rated at 16A per
Frequency	900 MHz FHSS, 10mW output power, -100dBm receiver sensitivity
Range	100m nominal, greater line of sight
Power	110 - 265 VAC
Physical	8.6" x 4.7" x 3.5", 1.65 lb., polycarbonate enclosure

