

VC-99

RADIO RECEIVER



Features

Kar-Tech's VC-99 radio receiver offers the OEM a highly configurable base platform from which they can control their equipment. The VC-99 platform communicates via RS-232, SAEJ1939, or 900MHz FHSS or 2.4GHz DSSS RF, all specifiable by the OEM. 24 inputs and 24 outputs configurable to your application, and expandable via CAN if more are required in the future provide the flexibility to drive the most demanding applications. More than a simple radio receiver, however, the VC-99 comes standard with advanced programming, calibration, and diagnostics tools designed specifically for the mobile hydraulics market, and easily integrates our add-on features such as GPS tracking, data-logging, RF range-extenders, etc. The enclosure is fully sealed (IP-66, NEMA4X) and the electronics are further silicon dip coated to protect against environmental factors.

General

Weight	1.0 lb.
Operating Temperature	-40° to +85° C
Storage Temperature	-55° to +85° C
Ingress Protection	IP66
Housing Material	Glass-filled polymer
Certification	FCC, IC, C-Tick, others on request

I/O

Communication Protocols	Serial: RS-232, CANbus: SAE-J1939, RF: 900MHz FHSS or 2.4GHz DSSS
Supply Voltage	12V/24V nominal (9V - 35VDC)
Analog Inputs	16 Maximum, 0-Supply Voltage (12/24VDC), 12-bit resolution with on-board +5VDC regulated analog reference for sensors. Inputs are protected for overvoltage/transient spikes
Digital Inputs	8 Maximum, 12/24V nominal input range with protection for overvoltage/transient spikes
Timer/Frequency Inputs	4 Maximum, 12/24V nominal input range with protection for overvoltage/transient spikes
Quadrature Inputs	1 Maximum, 12/24V nominal input range with protection for overvoltage/transient spikes
Current regulated PWM Outputs	12 Maximum, 5A max, sourcing
Non-current regulated PWM Outputs	24 Maximum, 5A max, sourcing
Digital Outputs	24 Maximum
Variable voltage/Ratiometric	0 - 30V, minimum 100K load, sourcing

*These are maximums only. Using all the inputs or outputs of one type may limit other I/O. Please contact us for no-charge application support

Wireless

Frequency	900 MHz FHSS, 33mW output power, 2.4 GHz DSSS, 100mW output power
Operating Range	300m nominal, greater line of sight

