

velleman **Micro Bug Kits** ■

A brightly colored miniature bug-shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- LED "eyes" indicate driving direction
- Adjustable light sensitivity that suits almost any light conditions
- Stops in total darkness • Size: 4.0" x 2.4"

Requires: 2 AAA batteries (recommend P/N 249181CK, pg 228)

Part No.	Product No.	Description	Pieces	1	10
200328CK	MK127	Running	26	\$18.95	\$16.95
200336CK	MK129	Crawling	29	21.45	19.35



velleman **Computer Control Interface Kit** ▲ 301-piece kit

Connects to printer port without interruption of the printer. Works well in control applications.

- Full opto-isolation with computer
- Analog inputs: 4 (AD1 to AD4), resolution: 256 steps
- Analog outputs: 8 (DAC1 to DAC8), resolution: 64 steps
- 3.5" disk with routines in C++, QBASIC, Turbo Pascal • 16 I/Os w/ opto coupler

Requires: DB25 cable (P/N 67256CK, pg 106)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128928CK	K8000	9.3"L x 5.3"W	1.7	\$139.95	\$125.95



Universal Relay Controller Card Kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- 8 channels expandable to 16 using 8 each P/N 144186CK
- Relay output: maximum 5A/220VAC
- TTL or 5V CMOS inputs (recommend P/N 34315CK, pg 41)
- Contact voltage: 12VDC @ 250mA

Requires: 220 or 125VAC power source

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910CK	K6714	8.3"L x 5.9"W	1.8	\$59.95	\$53.95
144186CK	VR15M121C relay (JZC-22F)		0.028	3.79	3.39



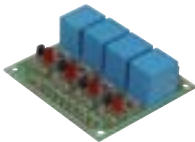
Relay Card ■ 29-piece kit

Connecting a number of relays to the outputs of an electronic network may seem very simple, but in reality it could create some problems regarding the cabling. This kit provides an attractive and compact alternative. Easy to assembly and can be connected instantly.

- 4 x 3A relay outputs

Requires: 9VDC @ 300mA power supply (recommend P/N 133891CK, pg 219)

Part No.	Description	Dimensions	1	10
239476CK	Relay card kit	3.0"L x 2.7"W	\$19.99	\$18.99



USB Interface Card Module

Interface board has 5 digital input channels and 8 digital output channels. In addition, there are two analog inputs and two analog outputs with 8-bit resolution. Inputs/outputs can be expanded by connecting more cards to the PC's USB port (max. of four).

Diagnostic/Test Software

- Separate output/input test
- Counter function on inputs 1 and 2 with adjustable debounce
- Analog output set sliders
- Clear all/set all function
- Analog input bar-graph indication

Part No.	Description	1	10
645263CK	USB interface card module	\$65.55	\$64.49



Obstacle Avoidance Robot Kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821CK	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	\$49.95	\$45.50



velleman **Remote Control by Telephone** ▲ 116-piece kit

- Turn on or off up to three devices (lights; check alarm systems; water heater; garage doors)
- Check conditions of a switch (open or closed)
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable)

Requires: 12VAC @ 300mA (P/N 101258CK, pg 221)

Includes: Relay for one output (10A/250VAC)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120678CK	K6501	4.1"L x 5.1"W	0.7	\$69.49	\$62.59



Hovercraft Kit ● 25-piece kit

This super kit is fun to build and a "blast" to run, but there's a bonus: education! Through the kit's curriculum (available online), budding scientists and engineers will learn principles of electricity and circuits, propellers, conversion of energy and other core concepts. And at the end of the learning process, they'll have a cool, battery-powered hovering vehicle that can glide over any smooth surface, even water!



Part No.	Description	Price
285641CK	Hovercraft kit	\$21.79

Robotic Arm Trainer Kit

Five Axes of Motion

Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.

- Max. length: 14.2"
- Max. height: 20.1"
- Max. lifting capacity: 4.6 oz.
- Grip opens to 2" wide
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Wrist rotation clockwise or counter clockwise: 340°
- Rotates left to right at the base 350° • Weight: 4.5 lbs.

Requires: 4 D batteries (recommend P/N 215845CK, pg 228)

Part No.	Description	1	10
157366CK	Robotic arm kit (unassembled)	\$74.95	\$67.49
159345CK	Robotic controller software (DOS 4.2 & up, Windows® 95/98)	84.95	76.49



Battery Charger Kits

velleman **Lead Acid Battery Charger Kit** ■ 62-piece kit

For charging and maintaining both open and sealed type 6V or 12V lead-acid batteries. Can be hooked-up to the unit for an indefinite time, and will be kept in optimal condition.

Requires: 18V/25VA transformer (P/N 149956CK, pg 223)

Part No.	Description	1	10
239521CK	Lead acid battery charger kit	\$39.95	\$37.95



Solar Cell Battery Charger Module

Going "off the grid" with solar cell or other alternative power set-ups? Then you need this electronic watchdog to supervise your battery charging! (A 5-amp fuse and fuse-holder recommended, not supplied.) LED indicators clearly denote charging and "full" conditions.

- Input: 14V to 22V (open circuit voltage), nominal -12V
- Max. input current: 5A
- Inrush voltage: battery voltage
- Interrupting voltage: battery voltage approximately 13.9V
- Own power consumption: <3.9mA (with LED on) • Size: 2.8"Lx2.0"Wx1.1"H

Part No.	Description	1	10
314211CK	Solar cell battery charger module	\$16.95	\$16.05

Look for these symbols on all of our kits to find the level that is right for you.

- = Beginner
- = Intermediate
- ▲ = Expert

