

**FCJJ-31**



**FCJJ-24**



## HORIZON ENERGY MONITOR



This ideal accessory to FCJJ-31 feeds live experiment data to your PC to be displayed as graphical data.

## PRODUCT DESCRIPTION

The Multi Energy Car Science Kit lets students experiment with tomorrow's sustainable transport solutions. Measure the superior energy density and power of the super capacitor. Compare different kinds of fuel cell technology, all of which convert elements into electrical energy: the salt water fuel cell and PEM fuel cell that exploit the energy efficiency of hydrogen. Plus, you can demonstrate the power of sunlight with the solar panel and generate electric-ity with the hand crank.

## FEATURES



- ✓ 6 different models can be built with one chassis
- ✓ Examines the strengths and weaknesses of each solution
- ✓ Compatible with all other Horizon kits, for measurement, data logging etc.
- ✓ Includes fixed steering function at front of the vehicle

## EXPERIMENTS & ACTIVITIES

### ✓ Multi energy powered car experiments

1. Power a car with a hydrogen fuel cell
2. Power a car with a salt water fuel cell
3. Power a car with solar energy
4. Power a car with a super capacitor and hand crank
5. Power a car with different forms of hydrogen (hydrogen gas and hydrogen hydride)
6. Power a car with a battery

## LANGUAGE PACK

✓ Assembly Guide :



✓ Technical Support Guide:





## KIT CONTENT

- ✓ Reversible fuel cell
- ✓ Hand crank generator
- ✓ Salt water fuel cell
- ✓ Battery pack
- ✓ Solar panel
- ✓ Super capacitor
- ✓ Solar panel support
- ✓ Fuel solution container
- ✓ Water & hydrogen tank
- ✓ Water & oxygen tank
- ✓ Clamp
- ✓ Wires
- ✓ Syringe
- ✓ Silicon tubes
- ✓ Red and black pins
- ✓ Purging valve

## CERTIFICATION

CoC, ROHS, EN71:PART1;PART2;PART3, EN62115, PHTH-EU, ASTM F963, CPSIA-LEAD, CPSIA-LEAD, CPSIA-PHTHALATES, REACH, CA.

\*All the information in this datasheet is subject to change without notice. In case of doubt please contact the Horizon sales team.

## PACKING INFORMATION

<b>Case Pack Quantity</b> (units):	1
<b>Master Pack Quantity</b> (units):	4
<b>Packaging Type:</b>	cardboard
<b>20' Container</b> (units):	1070
<b>40' Container</b> (units):	2185
<b>Unit Box Length</b> (cm/in):	43 / 16.93
<b>Unit Box Width</b> (cm/in):	33.5 / 13.19
<b>Unit Box Height</b> (cm/in):	23.5 / 9.25
<b>Unit Volume</b> (Litres/Cubic Meters):	33.9 / 0.034
<b>Unit Box Weight</b> (kg/lbs):	2.05 / 4.52
<b>Case Pack Length</b> (cm/in):	61 / 24.02
<b>Case Pack Width</b> (cm/in):	36 / 14.17
<b>Case Pack Height</b> (cm/in):	45 / 17.72
<b>Case Pack Volume</b> Litres/Cubic Meters):	98.8 / 0.099
<b>Case Pack Weight</b> (kg/lbs):	8.2 / 18.08

\*The cartons' size may vary between  $\pm$  1-2 cm.

## LOGISTICS INFORMATION

<b>Item UPC-Code:</b>	6942503405286
<b>Item HS-Code:</b>	-
<b>Manufactured in:</b>	Shanghai, China
<b>Local Warehouse</b>	Prague, Czech Republic
<b>FOB Harbor:</b>	Los Angeles, USA
<b>First Ship Date:</b>	available now
<b>Minimum Order:</b>	1