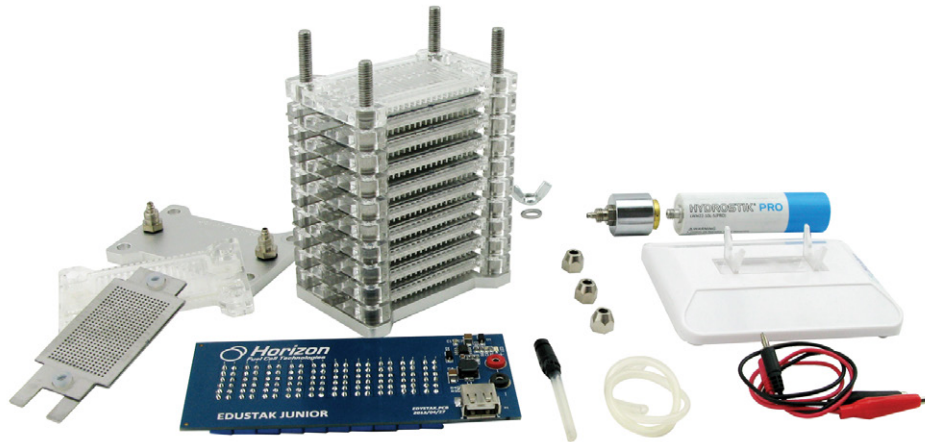


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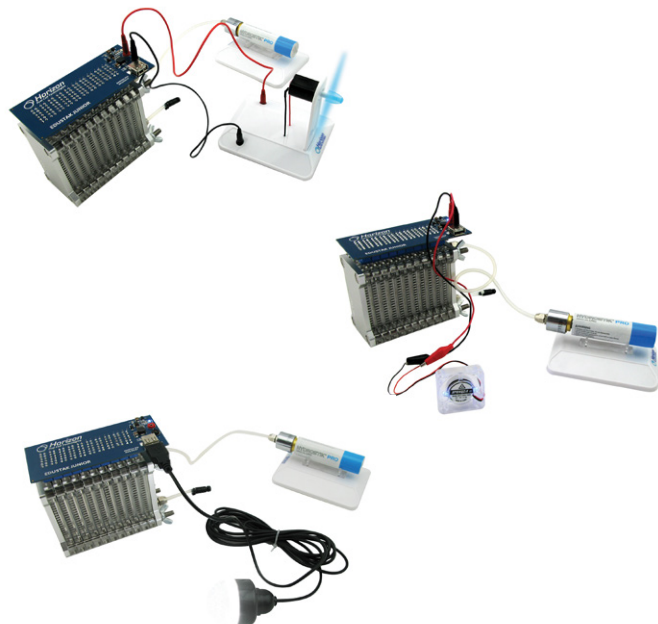


Product Description



EDUSTAK Junior provides fuel cell technology for the classroom without using compressed hydrogen. Investigate the power potential of hydrogen technology by constructing your own 4W fuel cell stack. HYDROSTIK PRO metal hydride cartridges provide instant hydrogen fuel and no tools are required to assemble a stack. EDUSTAK is the perfect technology to conduct advanced research into MEAS, investigate thermal effects within stacks and is even a shortcut to starting your own fuel cell lab.

Features

- ✓ Easy-assembly – no tooling required
- ✓ The stack power is readily scalable and it's straightforward to integrate sensors
- ✓ Rated output power up to 4W
- ✓ Optimal thermal management with air cooling circulation in each plate
- ✓ Includes HYDROSTIK PRO with tubing and adapted pressure regulator
- ✓ Comes with a complete instruction guide



Language Pack

- ✓ Assembly Guide CD: 
- ✓ Technical Support Guide CD: 

Add-on

Create your own hydrogen powered devices that can be completely self-sufficient, with the optional addition of the HYDROFILL PRO hydrogen station.



**H₂ REFUELING
STATION**



FCH-020



Content

- ✓ EDUSTAK JUNIOR
- ✓ HYDROSTIK PRO
- ✓ Manometer
- ✓ Electronic PCB card
- ✓ Blower fan
- ✓ Air pump
- ✓ HYDROSTIK PRO base
- ✓ Purging valve with tube
- ✓ Screws
- ✓ Three port connector
- ✓ 3 silicon tubes
- ✓ Clamp with tube
- ✓ Pressure regulator
- ✓ HYDROSTIK PRO support
- ✓ Wires

Specifications

Type of fuel cell	PEM
Number of cells	10
Rated power	4W
Performance	6V at 0.7A
Reactants	hydrogen and air
External temperature	5 to 35°C
Max stack temperature	55°C
H ₂ pressure	0.45-0.55bar
Hydrogen purity	≥99.995% dry H ₂
Humidification	self-humidified
Cooling	air (integ. cooling fan)
Dimension	125 X 60 X 95mm
Weight	510 g
Flow rate at max output ^[1]	0.05 L/min
Start up time	≤30s at room temp.
Efficiency of stack	40% at full power
Low voltage shut down	5V
Over current shut down	1A
Over temp. shut down	50°C

^[1]The flow rate may change with the power output.
The specifications are subject to change without notice.

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

Packing Information

Case Pack Quantity (units):	1
Master Pack Quantity (units):	1
Packaging Type:	cardboard
20' Container (units):	790
40' Container (units):	1615
Unit Box Length (cm/in):	44 / 17.32
Unit Box Width (cm/in):	33 / 12.99
Unit Box Height (cm/in):	23 / 9.06
Unit Volume (Litres/Cubic Meters):	33.4 / 0.033
Unit Box Weight (kg/lbs):	2.5 / 5.51
Case Pack Length (cm/in):	44 / 17.32
Case Pack Width (cm/in):	33 / 12.99
Case Pack Height (cm/in):	23 / 9.06
Case Pack Volume (Litres/Cubic Meters):	33.4 / 0.033
Case Pack Weight (kg/lbs):	2.5 / 5.51

*The cartons' size may vary between ±1-2 cm.

Logistics Information

Item UPC-Code:	6942503405170
Item HS-Code:	-
Manufactured in:	Shanghai, China
Local Warehouse	Prague, Czech Republic
FOB Harbor:	Los Angeles, USA
First Ship Date:	available now
Minimum Order:	1