## **Heltec Kit Parts List (work in progress)**

NOTE: a number of parts use PVC cement to fix the 3D printed parts to the enclosure. Use a small artists' paint brush to smear the glue otherwise you may get runs which require wiping quickly before the glue sets.

Item	Qty	Comments
	1	Enclosure available from Ebay
	2	Inner Vent Plug – provides support for Vent Pipes
	2	Side Vent Filter – to be fitted to the bottom end of the vent pipe  NOTE: this is not the same size as the bottom drain.
	1	NOTE: this is not the same size as the Side Vent Filters.

Item	Qty		Comments
	1		Cable inlet plug for connecting the cable gland.
	1		M16 4-8mm Cable gland for PSU cable entry Threaded section should be 16mm dia. Screws into. Available from Amazon
	2		Vent Pipe 21.5mm internal dia. Available in B&Q in packs of 3 for £1.98 and various other internet vendors.
	1	(a)(b) (b)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)(c)	BME280 humidity, pressure & temperature sensor.  Cable fitted (not shown) terminating in 6 way JST.
	1		SDS011 particulate sensor available from Amazon and Ebay
	1	HELLES OF THE PARTY OF THE PART	Heltec V2 (must be V2). firmware is pre-installed but available on github.  Available from Amazon or Ebay or Aliexpress.  Comes with an antenna. Fits into socket on the PCB. Pins usually need to be soldered.

Item	Qty		Comments
	1	Hettectore IZ  Hettectore IZ  Select Down	Heltec based controller PCB – assembled.
	1		Sensor linking pipe.
	4	M3x7 Poppstar Hard Drive Screws	for mounting carrier plate to enclosure.  Available from Amazon .
	2	clear poly pipe 25mm long x 8mm od	connects SDS011 to linking pipe and linking pipe to upper inlet vent. Available in B&Q
	1	5mm nylon pcb standoffs F-F 3mm thread	fits between SDS011 and carrier plate
	2	5mm nylon standoff F-M 3mm thread	fits between SDS011 and carrier plate
	2	18mm nylon standoffs F-F 3mm thread	fits on top of SDS011
	2	25mm nylon standoffs F-F 3mm thread	Carrier plate to PCB
	8	3mm x 5mm nylon screws	for securing the nylon standoffs

Item	Qty		Comments
Item	Qty 1		Clear Perspex Sensor Carrier.  2.4mm thick Perspex base plate – pre-drilled.
	1	•	Antonna Mount
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	1		2 way terminal block 3A (small)
	1	SDS connector JST 6pin to JST 4 pin 2.54mm	connect SDS to MCU PCB
	1	JST-2 pin with fly leads	connect MCU 5V to the 2 way terminal block.