Field Monitor BOM

From LowPowerLabs:

2 x Moteino (make sure the options are correct - some aren't legal in the UK!):
https://lowpowerlab.com/shop/moteino-r4
Transceiver: RFM69W – 433MHz (+$6.00)
Extras: Add male side headers (+$1.00)

£40 (inc. shipping)

From RS components:

1 x power supply:
http://uk.rs-online.com/web/p/plug-in-power-supply/7653311/
£6.00

1 x SD card:
http://uk.rs-online.com/web/p/secure-digital-cards/9011289/
£8.36

1 x Raspberry Pi B+:
http://uk.rs-online.com/web/p/processor-microcontroller-development-kits/8111284/
£18.23

2 x FTDI cable:
http://uk.rs-online.com/web/p/interface-development-kits/0429307/
£27.46

1 x Eneloop low self discharge batteries:
http://uk.rs-online.com/web/p/aa-rechargeable-batteries/8124393/
£11.00

1 x Battery holder:
http://uk.rs-online.com/web/p/battery-holders-mounts/4101450/
£2.58

2 x N-channel MOSFET:
http://uk.rs-online.com/web/p/mosfet-transistors/8075863/
£1.50

1 x Lithium Ion battery:
http://uk.rs-online.com/web/p/lithium-rechargeable-battery-packs/7760872/
£22.48

From Makersify:

1 x Real Time Clock (to keep track of time in the field):
https://makersify.com/products/adafruit-ds1307-real-time-clock-breakout-board-kit
£9.00

1 x solar charger:

https://makersify.com/products/adafruit-usb-dc-solar-lithium-ion-polymer-charger
£16.00

1 x PowerBoost:
https://makersify.com/products/powerboost-500-basic-5v-usb-boost-500ma-from-1-8v
£10.00

2 x 6V 2W solar panel:
https://makersify.com/products/adafruit-medium-6v-2w-solar-panel
£44.00

1 x thermistor (to monitor battery temperature):
https://makersify.com/products/adafruit-10k-precision-epoxy-thermistor
£5.00

1 x HDMI to VGA (so that RPi can output to a screen for setup):
https://makersify.com/products/adafruit-hdmi-to-vga-video-audio-adapter
£17.00

TOTAL: £238.61