Temperature Sensors

Victron products can make use of temperature sense information to improve accuracy of battery charging. There is a range of various sensors that you can use depending on your product. Some come included, others can be purchased separately. See the datasheet if the required product (eg Multi, Quattro, BMV) to know if the sensor comes included.

Temperature Sensor	VE.Bus Smart Dongle (1)	Smart Battery Sens
Picture	(/live/_detail/benh7ta_79897301-690x277.png?id=temperature_senso	
Products Supported	VE.Bus devices	Bluetooth enabled VE.Direct MPI
Victron Part Number	ASS030537010	SBS050100200
Temperature on VRM	Yes	No
Product Page	Link [https://www.victronenergy.com/accessories/ve-bus-smart-dongle]	Link [https://www.victronenergy.com/acce
Manual	Accessory Manual [https://www.victronenergy.com/live/vebus_smart_dongle_manual]	Accessory Manu [https://www.victronenergy.com/media/pg/S en.html]
VE.Smart Networking [https://www.victronenergy.com/live/victronconnect:ve-smart-networking]	Yes	Yes
Modifying cable length?	n/a	yes (2)

Notes:

1. You can mount the dongle itself directly on the battery. It has an internal temperature measurement. There are also terminals you can connect an external probe to as well, you must use the probe part - ASS000100000.
2. Cable length may be altered without any issue - within reason. The same wiring is used as a power supply for the Smart Battery Sense as well, too much resistance in the cabling will cause a too low voltage reading. If desired, cable length may be shortened without any issue.
3. Although discouraged and unsupported, cable length may also be extended if necessary for the installation - providing the additional length is kept short and conductor cross section is sufficient, a slight increase in cable resistance will not negatively effect the temperature reading accuracy. Note that a notable increase in cable resistance to the BMV temperature sensor will also effect the voltage reading accuracy.