Microcare Communication Protocol Requirements

What do you have?	What do you want to connect to?	You will need:	How many?
MPPT - LCD (20,40,60, 100A)	Battery Monitor	RS232 - RS485 Converter	1 per MPPT
	Web Logger	RS232 - RS485 Converter	1 per MPPT
	Brake Relay	Brake Relay	1 per MPPT
	Internet	Web Logger	up to 30 devices
	Programmable Relay	Connection Cable	
	Computer	RS232 - USB Converter	1 per MPPT
Bi-Directional Inverter (1-15 kW) **Inverter must have Comms port	Battery Monitor	RS232 - RS485 Converter	1 per Inverter
	Web Logger	RS232 - RS485 Converter	1 per Inverter
	Internet	Web Logger	1 (up to 30 devices)
Battery Monitor **needs min 1x battery sensors but 2x battery sensors recommended	Web Logger	RJ45 Connection Cable	-
	MPPT - LCD (20,40,60, 100A)	RS232 - RS485 Converter	-
	Inverter (1,2,3,5,10,15 kW)	RS232 - RS485 Converter	-
	200A Battery Sensor	RJ45 Connection Cable	-
	400A Battery Sensor	RJ45 Connection Cable	-
	4 Channel Relay	RJ45 Connection Cable	-
4 Channel Relay	Battery Monitor	RJ45 Connection Cable	-
200A Battery Sensor	Battery Monitor	RJ45 Connection Cable	-
400A Battery Sensor	Battery Monitor	RJ45 Connection Cable	-
Web Logger **needs cabled internet connection	Battery Monitor	RJ45 Connection Cable	-
	Inverter (1,2,3,5,10,15 kW)	RS232 - RS485 Converter	1 per Inverter
	MPPT - LCD (20,40,60, 100A)	RS232 - RS485 Converter	1 per MPPT
Wi-Fi module Does not need internet, but for online logging, a internet connection is required	MPPT—LCD (20,40,60,100A)	RJ12 Connection Cable	1 per MPPT
	Bi-Directional Inverter (requires comms module)	RJ12 Connection Cable	1 per Inverter
	Three-Phase Pump Controller	Wi-Fi module (w/o adapter)	1 per Pump Controller
	Grid Tied Inverter	DB9 Connection Cable	1 per GTI
	Battery Monitor	Not supported currently	-