RSO-LCO messages

Direction	Code	Value	Action
RSO->LCO	R	-	RESET - clear all states and counters - turn off all lights and wait for new instruction
RSO->LCO	B	-	Request a battery voltage reading - read battery voltage via INA219 and send message below
LCO->RSO	B	99.9	Current battery voltage
RSO->LCO	C	-	Request station circuit connectivity tests - turn off all station status LEDs - initialize Uint16 to zero - start polling station buttons
LCO->RSO	C	9	Station N circuit checked - or the station bit into the UInt16 - when all Uint16 pins set, send C+ to RSO
LCO->RSO	C	'+'	All stations checked - sent whenever the Uint16 shows all stations reported connection OK
RSO->LCO	T	9	N seconds left in countdown - LCO status LEDs set to N green and 10-n dark
RSO->LCO	L	-	Timer running, launch now - change all LED status LEDs to red - poll stations and send launch request below as new buttons pushed
LCO->RSO	L	9	Station requested launch - reset LCO status status button to blue (fired0
RSO->LCO	T	'-'	Timer off, no more launches - set LCO status LEDs to match each station LED - disable all activity - wait for 'A' to resume

- after the preparation and launch sequence, the RSO will send a RESET ('R') command to set up for the next cycle
- a reset will occur whenever the RSO releases the button AT ANY TIME after both the RSO's fire control line (i.e. fixed and dead-man switch). To be clear, once the RSO has established enough trust in the system to engage both safety switches, anything which causes the RSO to break that line will shut down the LSO panels completely)