ETR CELLMETER STATE MANAGER FLOWCHART

STATE MANAGER

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CAN message recieved
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State request (Charge, discharge or standby) | Keep Alive message | Charge/Discharge current | Min/Max cell voltage/temperature

Keep Alive message → Send temperatures and KA code

Charge/Discharge current → Modify charge/discharge current parameters → Send charge/discharge parameters change feedback

Min/Max cell voltage/temperature → Modify min/max cell parameters → Change cell parameter registers on charge IC → Send min/max parameters change feedback

State request → Charge Request | Discharge Request | Standby request

Charge Request → To charge flowchart

Discharge Request → To discharge flowchart

Standby request → Cell presence?

Cell presence? — No → Change cell state to standby → Send state message

Cell presence? — Yes → Kn1 to OPEN position → Read voltage, current and temperature → Values inside correct margins?

Values inside correct margins? — Yes → Change state to standby → Send values and state messages

Values inside correct margins? — No → Send error cell values message