TOP ISSUES:

# **Shared Ground**

## Is it alright to connect the high voltage ground to logic ground? Any issues of ground noise coupling?

# **Heat loss in MOSFET**

## If my MOSFET has an RDS-ON = 25 Ohms, do I risk static power loss during ON/OFF state causing overheating?

## How large should my series resistance be between VSTAT and GND? Do passive components have voltage limits?

## Is there a good design to circumvent static power losses?

# **VGS-min required to fully switch MOSFET**

## Can the port expander provide sufficient current/voltage to switch the MOSFET?

# **Capacitive load of electrode** Any risk of back-emf into my MOSFET causing damage?