

# MPMS Resistance

## TCM Wiring (Black color coded Lemo receptacle)

### Bottom cernox/GRT Thermometer:

Pins 1-2: \_\_\_\_\_ (85-150 $\Omega$ , GRT: 85-100 $\Omega$ )  
Pins 3-4: \_\_\_\_\_ (85-150 $\Omega$ , GRT: 85-100 $\Omega$ )  
Pins 1-3: \_\_\_\_\_ (80-95 $\Omega$ )  
Pins 2-4: \_\_\_\_\_ (80-95 $\Omega$ )

### Center cernox/PLT Thermometer:

Pins 5-6: \_\_\_\_\_ (CX:100-130 $\Omega$ , PLT: 190-210 $\Omega$ )  
Pins 7-8: \_\_\_\_\_ (CX:100-130 $\Omega$ , PLT: 190-210 $\Omega$ )  
Pins 5-7: \_\_\_\_\_ (70-90 $\Omega$ )  
Pins 6-8: \_\_\_\_\_ (70-90 $\Omega$ )

Gas Heater: Pins 9-10: \_\_\_\_\_ (95-110 $\Omega$ )  
Chamber Heater: Pins 11-12: \_\_\_\_\_ (150-170 $\Omega$ )

### No shorts to ground:

(Pin 1) - to ground: \_\_\_\_\_  
(Pin 5) - to ground: \_\_\_\_\_  
(Pin 9) Gas Htr. - to ground: \_\_\_\_\_  
(Pin 11) Chamber Htr. - to ground: \_\_\_\_\_

### No shorts between Thermometers and Heaters:

Pins 1- (5, 9,11): \_\_\_\_\_  
Pins 5- (9, 11): \_\_\_\_\_  
Pins 9-11: \_\_\_\_\_