

April 16, 1999 F.Jundt

MTPC1

Connections

Field cage : a 10nF capacitor is installed, the top of the field cage should go to ground through a 10 M Ω resistor.

Gating grids : connect to the two output connectors of the « pulser » ; no filter, since it should respond as fast as possible .

Cathode grid : connect to ground as close as possible to the « read out board » .

Anode wires : decouple with a 10 nF capacitor. A filter would have a too long time constant.

Voltage

Field cage (bottom) : 5 kV (I = 45 μ A)

Fiel cage (top) : 0 V

Cathode grid : 0 V

Gating grid : -250 V, pulsed at \pm 80 V

Anode wires : 1250 V

Gas

Input from the bottom, exhaust at top, 50ml/min of the 90%Ar-10%CO₂ mix.

MTPC2

Connections (valid for T1 and T2)

Field cage : decouple with a10nF capacitor, the top of the field cage should go directly to ground .

Gating grids : connect to the two output connectors of the « pulser ».

Cathode grid : connect to ground as close as possible to the « read out board ».

Field wires : connect to ground as close as possible to the « read out board ».

Sense wires : decouple with a 10 nF capacitor. A filter would have a too long time constant.

Voltage

Field cage (bottom) : 5 kV (I = 61 μ A)

Fiel cage (top) : 0 V

Cathode grid : 0 V

Gating grid : -350 V, pulsed at \pm 80 V

Field wires : 0 V

Sense wires : +1280 V

Gas

Input from bottom left, exhaust from top right, exhaust at top, 50ml/min of the 90%Ar-10%CO₂ mix.