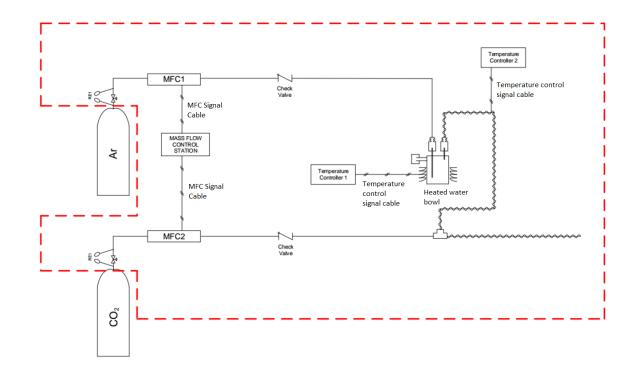


BURSA GAS LABORATORY

Yalçın Kalkan

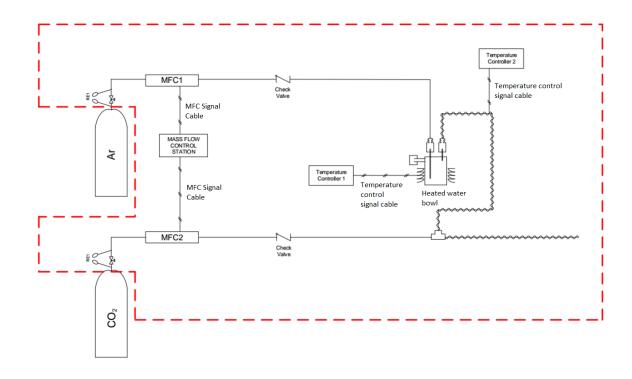
GAS SYSTEM

- Two separate mass flow controller for Ar and ${\rm CO}_2$
- Computer controlled TrlInstruments mass flow control station
- Programmable gas flow
- Check valves
- Adjustable humidity by heated water bowl for Ar gas
- PTC thermocouple
- Digital temperature controller



GAS SYSTEM

- Heated gas pipes after water bowl
- Temperature range in the bowl is 80 °C
- Temperature range in the heated pipes is 150 °C



GAS

- Nitrogen %99,999 max 1ppm O₂
- Argon %99,999 max 2 ppm O₂
- CO₂ %99,995

ELECTRONICS

- NIM8302/15, NIM 5U Compact crate, 10 slot,
 150W (±6V 5A, ±12V 3A, ±24V 1,5A)
- N1470, 4 Channel NIM Programmable High Voltage Power Supply (±8kV, 3mA, 50nA res.)
- N1145, Quad Scaler and Preset Counter-Time
- N625, Quad Linear Fan-In Fan-Out



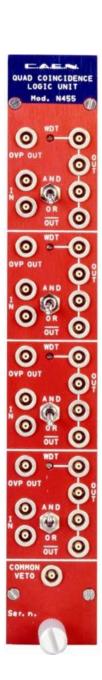




ELECTRONICS

- N455, Quad Coincidence Logic Unit
- N93B, Dual Timer
- N14XX Customization Imon Zoom
- SW1470 N14XX Control Software
- T&D TR-77Ui Temperature and Humidity data logger.

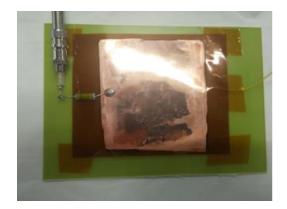


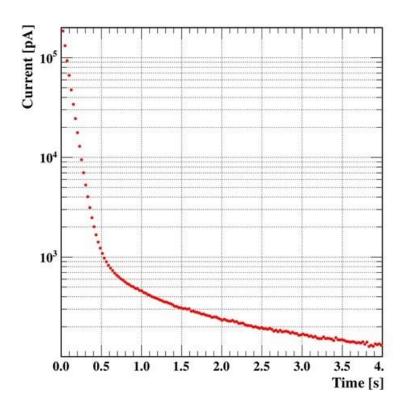


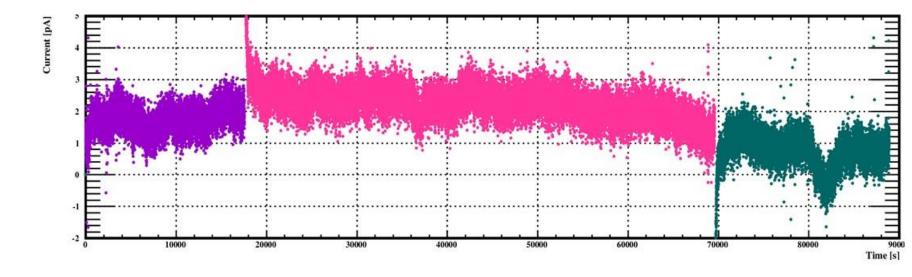


PLANS

- Resistivity of polyimide
 - in gas
 - in moisture at different rates
 - at different temperatures
- Gain
 - certain amount of moist gas
 - > at different temperatures







EXPECTATIONS

- Questions
- Suggestions
- Collaborations

