Setup for GEM foil test at UoS

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Setup items for GEM foil test

M. S. RYU
① Oscilloscope (Ch: 4-8ch, BW: 1-1.5GHz, 10-15 GSa/s) → 15-20 MKRW
② NIM bin (portable) →
③ CAEN N471A (HV, NIM module) →
④ KEITHLEY 2001 multimeter (current measurement) →
⑤ NI “GPIB-usb-HS” →
⑥ Dry keeper (W 24.5 in, H 13.75 in, D 15.5 in) with electrical humidity → 1500 – 1800 USD

M. CHOI
① DAQ pc (windows+LabView) →
② Nitrogen gas (pressure valve + ball pin flow meter) →
③ Acrylic box (1 x 1 m², o-ring & lock) →
④ Temp. & Humidity (digital) meter →
⑤ Multimeter (digital) →
⑥ Electrical drill (wireless) 2ea →
⑦ Soldering system →
⑧ General tools & box →
Fabrication lab in UoS

- Lab size:
- Clean room size (4x4 m²) (> optical table):
- Air-conditioner:

- Tools:
  - Electrical drill:
  - Compressor:
  - Soldering system:
Test lab in UoS

- Lab size:
- Table for Test:
- Tools:
- Lack:
- NIM bin:
  - 4ch HV supply (current monitor):
  - preamp:
  - Disc.:
  - 4 fold logic:
  - logic counter:
- CAMAC crate:
  - ADC
  - TDC
- Oscilloscope - (KU: 4ch Tektronix - 5 Gsa/s, 500 MHz BW), Agilent, LeCroy, etc.
- Gate generator – (KU: ? for RPC)
- HV cables: CERN and Domestic
- LEMO cables: CERN and Domestic
- BNC Cables: Domestic
Gas system in UoS

- Lab size:

- Gas mixer:
  - Gas: Ar, CO$_2$, C$_4$H$_{10}$, or mixed gas, etc

- Air duct from lab:
  - gas pipe (Φ4, etc):
  - gas connector (Φ4, etc):
  - gas leak detector (?? from UoS):