

ECOGAS status of the system

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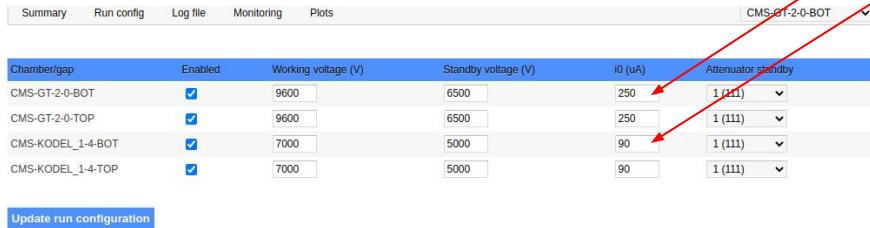
EP-DT
Detector Technologies

Status

- CMS-KODEL, CMS-GT Irradiating with standard gas mixture:

<https://rpcecgas.web.cern.ch/rpcecgaselog/83>

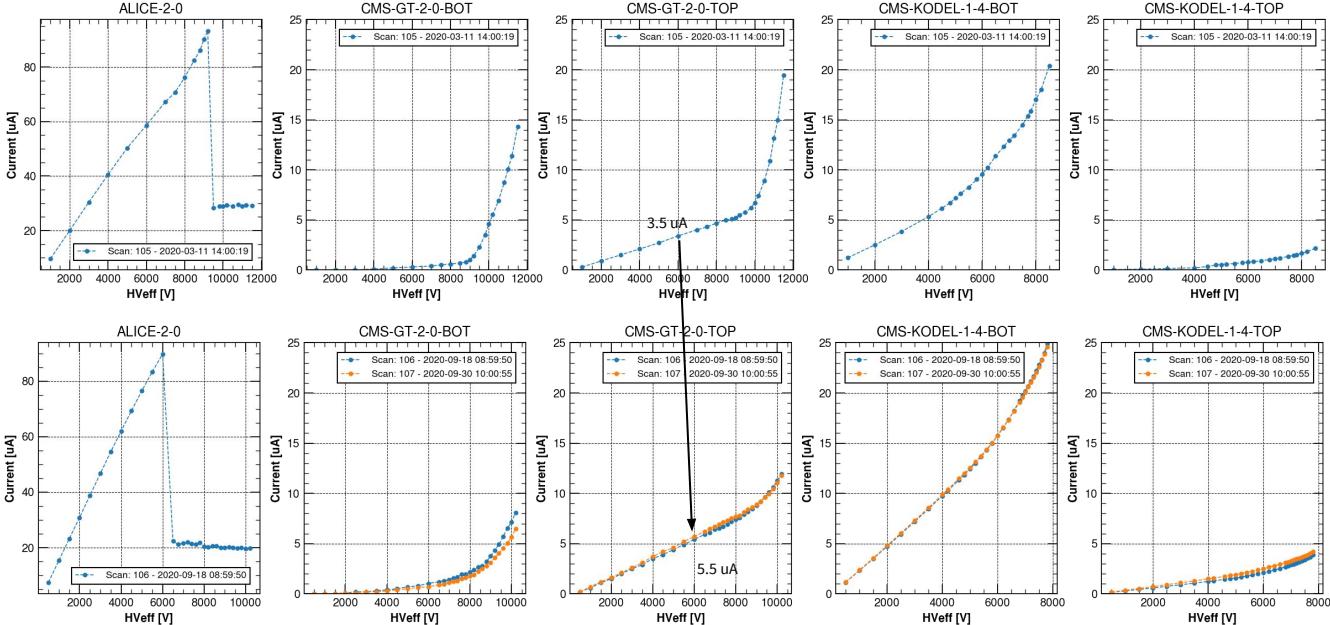
- Issues with webdcs (now fixed): always double check the current IOSet and the board!



Chamber/gap	Enabled	Working voltage (V)	Standby voltage (V)	i0 (uA)	Attenuator standby
CMS-GT-2-0-BOT	<input checked="" type="checkbox"/>	9600	6500	250	1 (111)
CMS-GT-2-0-TOP	<input checked="" type="checkbox"/>	9600	6500	250	1 (111)
CMS-KODEL_1-4-BOT	<input checked="" type="checkbox"/>	7000	5000	90	1 (111)
CMS-KODEL_1-4-TOP	<input checked="" type="checkbox"/>	7000	5000	90	1 (111)

[Update run configuration](#)

Results HV scan 18,30 Sep 2020



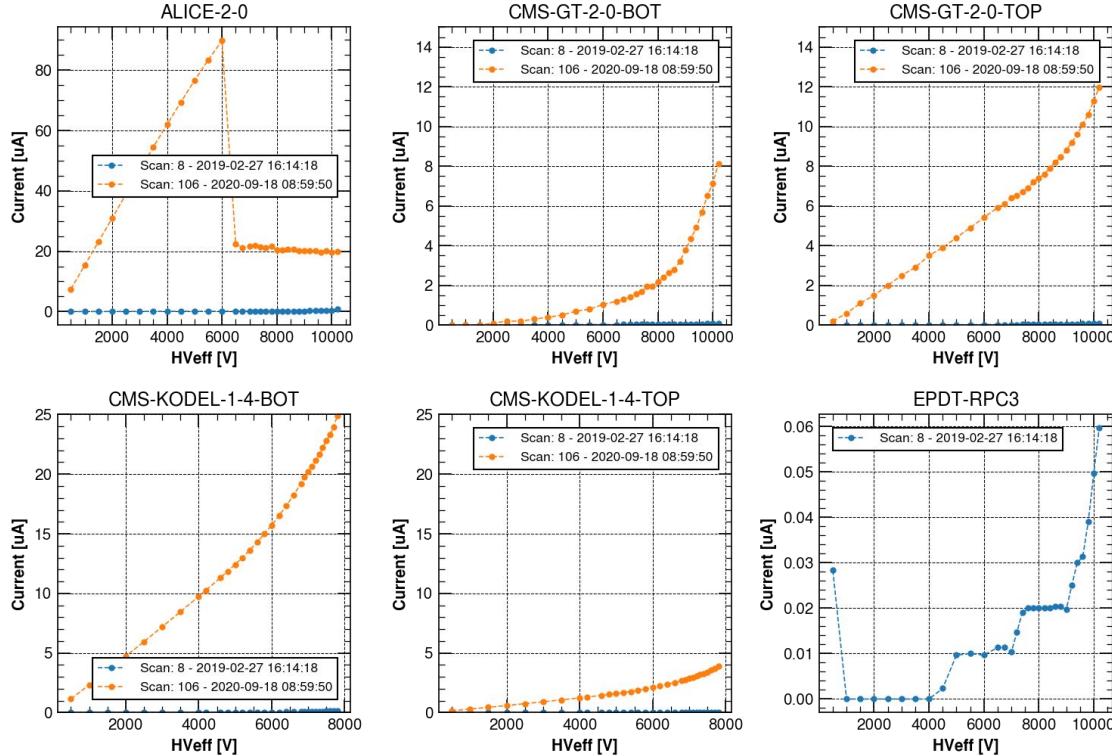
Scan 105: ECO₂ mixture, -66 °C
 d.p., no humidity

- CMS-GT > 5 ln/h of rotameter => ~ 10 ln/h => 3.5 vol/h
- CMS-K = 3.5 ln/h of rotameter => 7 ln/h => 14 vol/h
- ALICE = 1.1 ln/h of rotameter => 2.2 ln/h => ~ 4 vol/h

Scan 106, 107: STD mixture, 4 °C
 C d.p., no irradiation

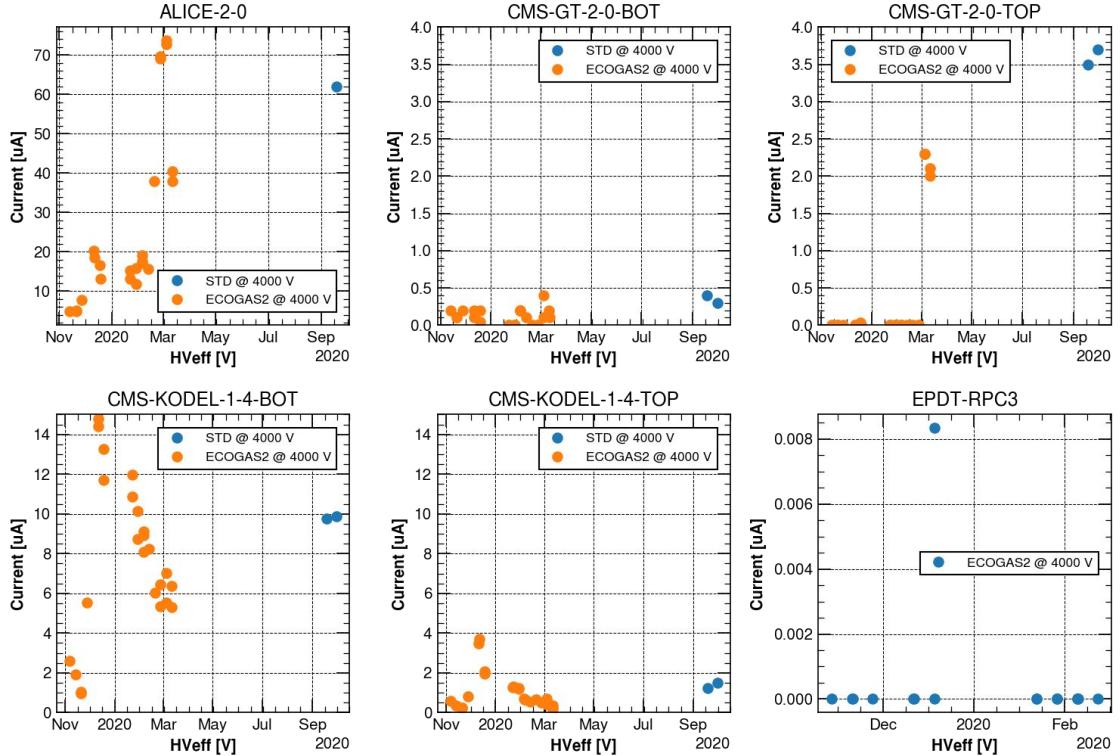
- CMS-GT > 5 ln/h of rotameter => ~ 10 ln/h => 3.5 vol/h
- CMS-K = 3.5 ln/h of rotameter => 7 ln/h => 14 vol/h
- ALICE = 1.1 ln/h of rotameter => 2.2 ln/h => ~ 4 vol/h

Comparison HV scan with STD mix.



Scan 8: STD mixture, 4 °C d.p.,
 first tests (no irradiation)

Ohmic currents



Ohmic currents over time for ECO2 and STD mix scan:

CMS-GT-TOP seems to be affected by an increase happening with last scans in March

Ohmic current with STD mix. look in the average for KODEL and CMS-GT-BOT