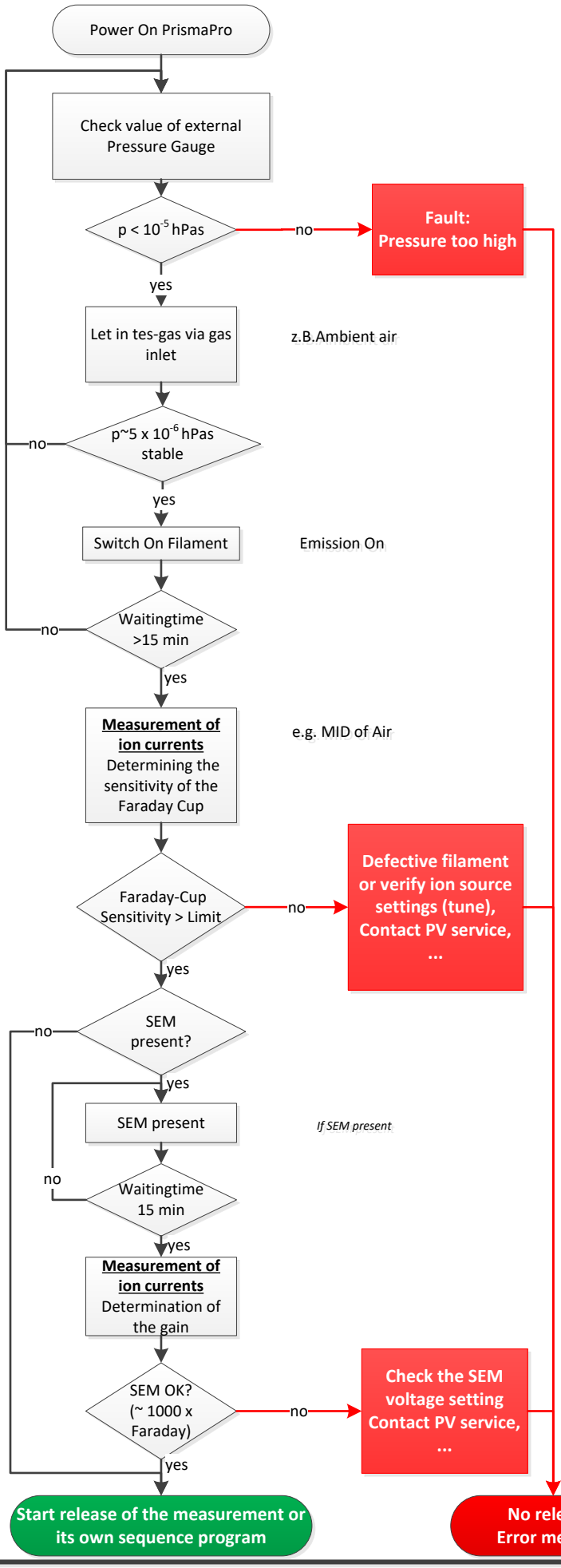
PFEIFFER VACUUM

Calibration of the PrismaPro on the measuring sensitivity

R&D MA Bu 2019-10-24

It is assumed that the selection and adjustment of the ion source has been performed by the PV service or personnel trained by PV.



Method for evaluating the ionic currents

Measurement of the ion currents of the masses of a test gas or of e.g. air

4 14 16 17 18 20 28 32 40 44

Assessment of the **sensitivity** of the Faraday detector (ratio of ion current totals to total pressure)

∑ Ion currents / Total pressure ≥ Limit

Limit:
(Sensitivities of the Faraday detector) for Ar

1 x 10-4 A/hPas

SEM functionality Test

(if SEM present)

Air: Measurement of e.g. I_{28}SEM
Testgas: IxxSEM of the mass with the highest intensity

e.g.: I_{28}SEM > (I_{28}Faraday *900)
&
< (I_{28}Faraday *1100)