Using GMS with the PEM-400



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The PEM-400 is compatible with Santec's free GMS software, available for download from our website:

https://inst.santec.com/resources/software-downloads

VISA drivers are required for USB communication such as National Instruments:

 https://www.ni.com/en/support/downloads/drivers/download.nivisa.html?srsltid=AfmBOoowzhLNq08Z7mVQ521ySwPAccRsNODajmJbzvtjUMpd3JcvbYcK#544206

GMS has been used by hundreds of customers globally in both production and lab environments for over a decade. Key features include:

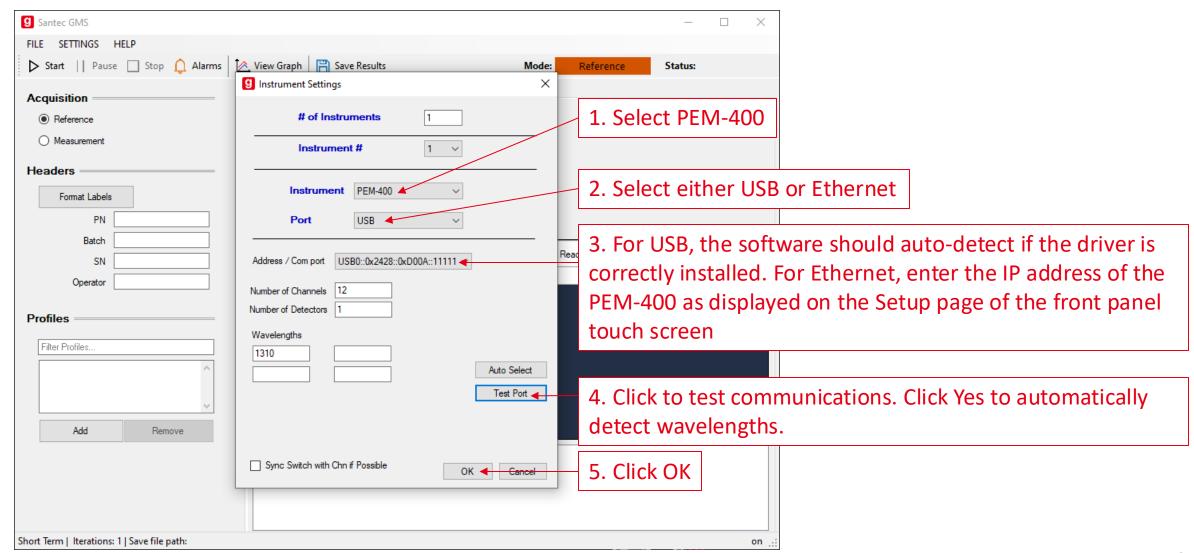
- create test plans
- set pass/fail criteria
- save data to Excel automatically
- automatically generate customizable reports



Initializing the instrument



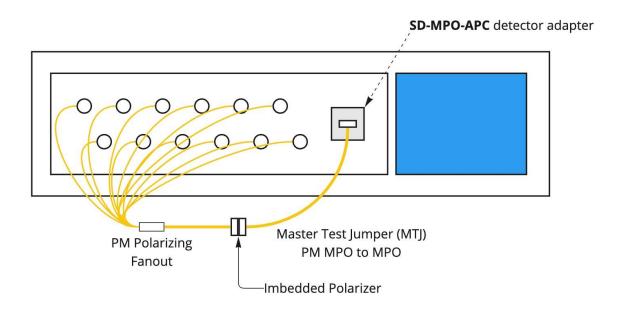
Open GMS then go to Settings > Instrument Settings



Optical connection diagram (reference – optional)



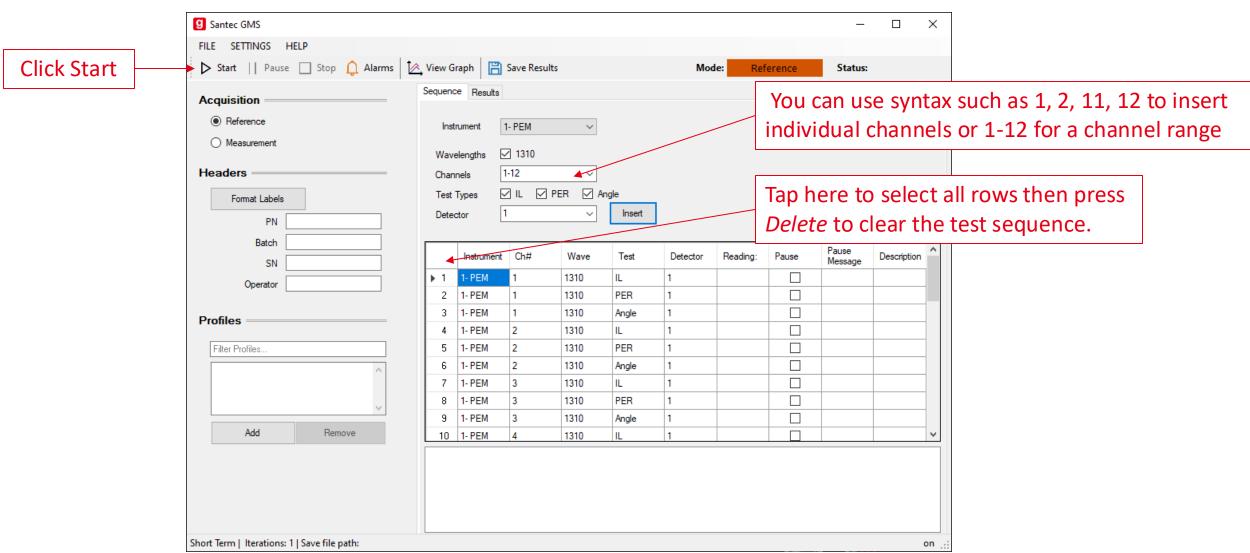
If measuring IL, PER and angle, connect the MTJ as per the diagram below. If measuring only PER and angle, skip the reference step.



Creating a test sequence



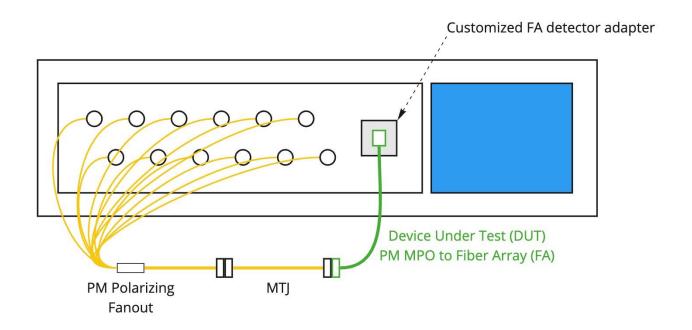
Select the desired parameters and click insert to populate the sequence table.



Optical connection diagram (measurement)



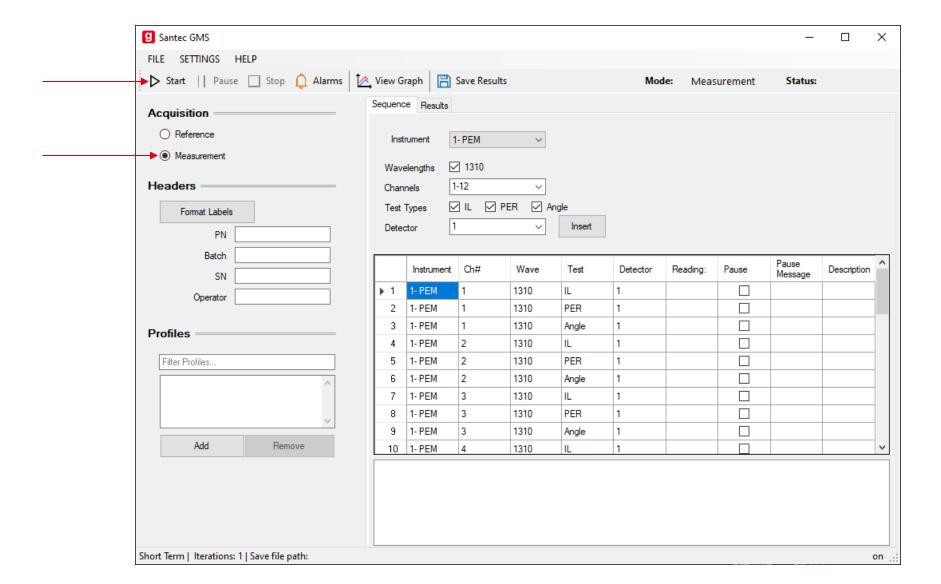
Connect the DUT either directly to the polarizing fanout (measuring PER and angle only) or to the MTJ (measuring IL, PER and angle).



Performing a measurement



Select Measurement Acquisition then click Start.



Additional features



Go to Settings > Test Settings for many more additional features and options.

