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CO_2 and Other NDIR Filter Requirements

Here are some things to consider when selecting the specifications for the NDIR filters for your detectors:

The bandwidth of your NBP filter should reflect the requirements of your system (narrower for higher sensitivity).

Your reference filter should have about the same bandwidth as your gas filter(s).

Your reference filter should be near the center wavelength (+/- 20%) of your gas filter(s) in a band clear of any other compound absorptions.

For high concentrations of CO_2 (>10%) use the different absorption band at 4.45um CWL. It is not as sensitive and your detector will not saturate at the higher concentrations.