





## Measurement Technique

Measurements can be carried out with most Michell Cooled mirror instruments; the Optidew 501 is ideal for this application. Measurements are commonly taken at three points in the process: Firstly the ambient dew point feeding the power house turbo inlets. The gas is then injected into the cold blast (where it is heated to 176°C) prior to the stoves where the second measurement is taken, followed by further heating in the hot blast (1200°C), where the final measurement is taken before the gas is injected into the furnace to control the flame temperature.

It is important to install the sensors in sampling systems to regulate flow, particularly in the case of the hot blast point, where the sampling system must also include a heat exchanger, to reduce the sample heat from 1200°C to a more acceptable level for the sensor (>90°C).



Power house



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