SPECIALIZED EQUIPMENT SPECIFICATIONS	
Fenn R&D Institute (FRDI)	
Fenn College of Engineering, Cleveland State University	
Name:	Du Pont Instruments 951 Thermogravimetric Analyzer
Description/Use:	measures the amount and rate of weight change of material,
	either as a function of temperature or time
User fee:	Call, Email
Fee basis:	per sample
Contact Person:	Prof. Jorge E. Gatica, (216) 523-7274, j.gatica@csuohio.edu

## DETAILED DESCRIPTION:

The 951 Thermogravimetric Analyzer (TGA) constantly measures the amount and rate of weight change of material, either as a function of increasing temperature or isothermally as a function of time, in a varied but controlled atmosphere. The TGA can be interfaced with other analytical instruments for multiple measurements and can be readily modified isolated for special applications.



or

## **OPERATION:**

The system is not automated. The heating rate and temperature of the furnace are set by the operator. Trained assistants or technicians perform the experiments. Experimental protocol can be adjusted to requirements.

## **SPECIFICATIONS:**

Capacity: Weight Ranges: Temperature Range: Suppression:

Suppression Accuracy: Precision of Weight Measurement: Accuracy of Weight Measurement: Derivative Range: Time Constant: Pressure: Purge Rate: Control Thermocouple: Sample Thermocouple: 500 mg including sample pan 0.020 to 500 mg full scale
Ambient to 1200 °C 110 mg electronic tare, stepped and continuously variable; mechanical tare to 500 mg ±0.4 % of suppression
0.4 % of full scale
±1.0 % of full scale
0.020 to 50 mg/minute
0 (direct), 1, 2, 5 seconds
Atmospheric to 100 Pa (1 torr)
Up to 1 L/min Platinel II
Chromel-Alumel