

# Multi-Filler L module

## Valmet Paper Lab

Paper and board manufacturers need accurate and fast data of ash and ash components. Valmet has the only automated measurement on the market for total ash, individual calcium carbonate, titanium dioxide and clay.

The Multi-Filler module measurement is based on a combination of X-ray fluorescence analysis and preferential absorption of X-rays. This combination enables simultaneous measurement of up to three ash components: CaCO<sub>3</sub>, TiO<sub>2</sub> and Clay.

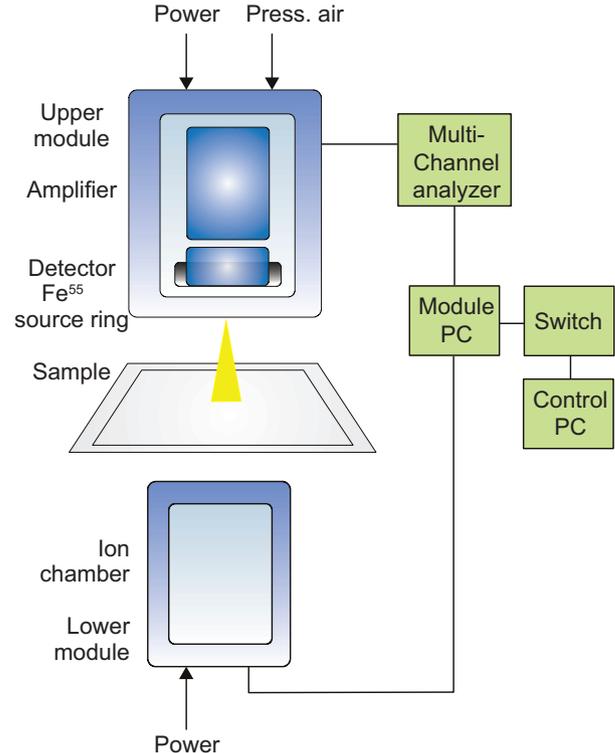
The fluorescence measurement is a single sided back-scatter measurement for titanium dioxide and calcium carbonate. The preferential absorption measured from the opposite side through transmission is for clay and total ash.

Related standards: TAPPI T413, CPPA G.11, APPITA P418, ISO 2144, DIN 54370, BS 3631, JIS P 8252, JIS P 8251



Benefits for the papermaker	
Fast, accurate, automated measurement	
Total ash	
Individual ash components	
Tool for quality and process control	

Technical data	
Size (cells)	2
Weight	upper module 4.2 kg (9.3 lbs) lower module 2.0 kg (4.4 lbs)
Source (Fe <sup>55</sup> )	20 mCi
Measuring range (wider range dependent on grade)	
TiO <sub>2</sub> (BW < 250 g/m <sup>2</sup> )	0–20 %
CaCO <sub>3</sub> (BW < 300 g/m <sup>2</sup> )	0–20 %
Clay (BW < 350 g/m <sup>2</sup> )	0–40 %



For more information, contact your local Valmet office. [www.valmet.com](http://www.valmet.com)

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