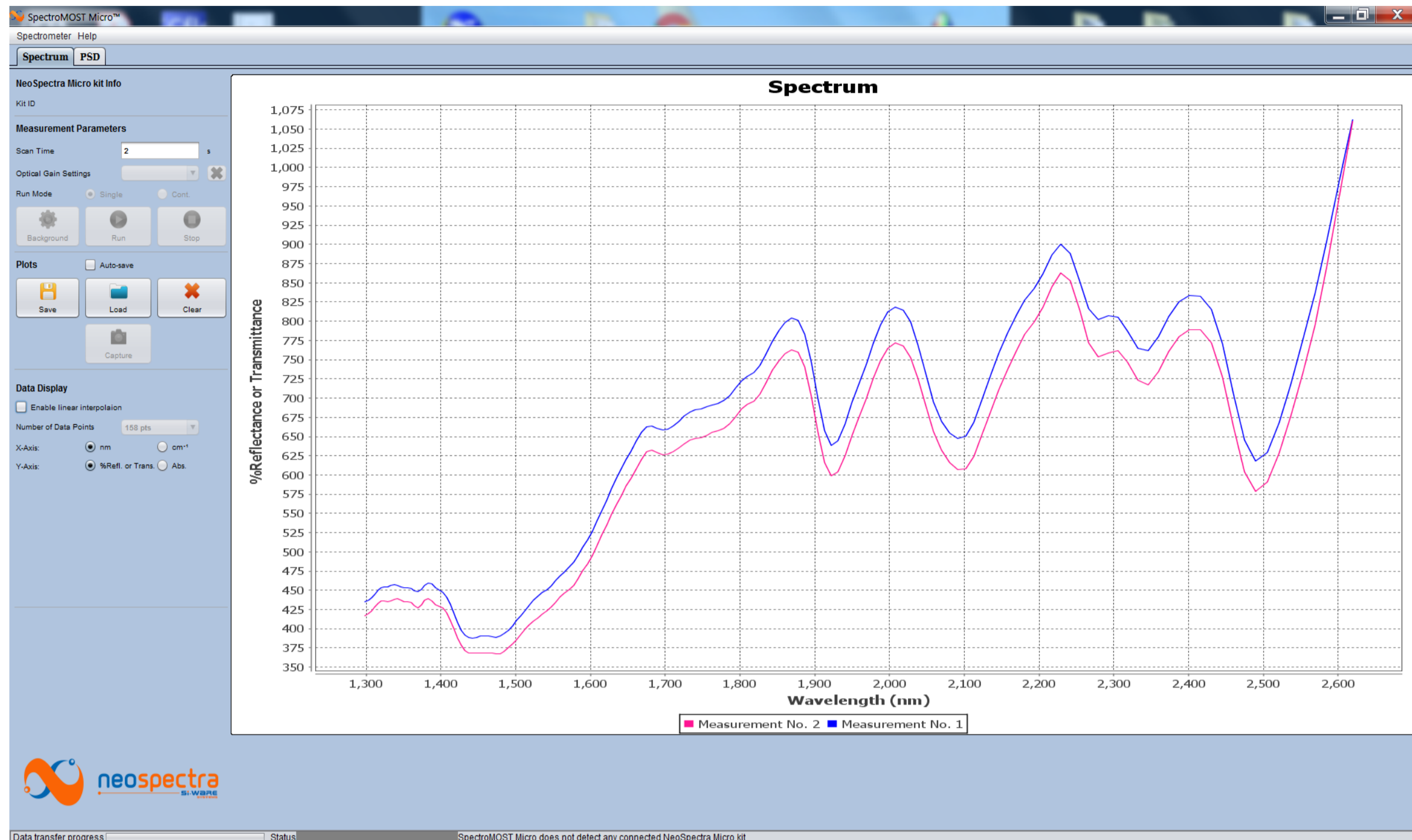


SCIENTA ONLINE MIR SENSORS FOR TISSUE WEIGHT MEASUREMENT



- ✓ Non-contact, double sided online measurement
- ✓ Real-time, state-of-the-art Mid-InfraRed measuring wavelengths
- ✓ Basis Weight measurement of cellulose based Tissue materials
- ✓ More accurate online measurements using large optical components

MEASURING METHOD



The Scienta MIR absorption-based sensor series 7230 is a double sided, 2-channel or 4-channel InGaAs detector-based Basis Weight sensor for online use. The sensor measures the Mid infrared light absorbed by different wavelengths caused by cellulose on sheet. This signal is digitalized and linearized to correlate to real weights in engineering units. Basis weight range is 5..100 g/m².

BENEFITS

to process applications such airlaid, nonwoven and tissue paper lines. The sensor is insensitive to ash, but recycled pulp can influence the measurement accuracy.

- No radioactive source is required
- Non-contact measurement
- Service free construction
- Easy and convenient to install and operate
- Full range of scanners available
- Easy calibration and setup
- More accurate on-line measurements
- Faster on-spec quality and reduced start up waste
- Reduction in rejects due to high performing measurements
- Minimization of energy consumption by accurate and reliable weight measurements and controls
- Machine speeds can be increased on drying limited air laid and paper machines
- Multiple channel sensor technology with micro-optic receiver

TECHNICAL SPECIFICATIONS

Sensor Type	7230-2	7230-4
Construction	Double sided	Double sided
Meas Channels	2	4
Measuring Range	5 – 100 g/m ²	5 – 100 g/m ²
Accuracy	0,1 g/m ²	0,2 g/m ²
Repeatability	0,01 g/m ²	0,01 g/m ²
Recommended Measurement Gap	13 mm	13 mm
Power	+24V, 1A	+24V, 1A
Installation	Scanning/Fixed	Scanning/Fixed

Sensor Type	7230-2	7230-4
Ambient Light Sensitivity	None	None
Interface Options	Profibus	Profibus
	Modbus	Modbus
	Ethernet	Ethernet
Sheet colour compensation	No	Yes
	2 x analog	2 x analog
Environmental Conditions	10-60 °C 10-95 % RH	10-60 °C 10-95 % RH
Liquid Cooling	Optional	Optional