

# Spektron Biomass



spektron



## Measure Moisture in Biomass at Delivery in 90 seconds

**Analyse your biomass moisture content right at delivery in 90 seconds!**

Prediktor has developed a specific solution combining an at-line sampler, our NIR Spektron instrument, a touchscreen and our real-time software to provide accurate and instantaneous moisture measurement for biomass in CHP plants. Moisture content is a key parameter for CHP plants using biomass.

- Raw material optimisation for burning efficiency
- Suppliers and deliveries control for stock management and cost optimisation.

The system is placed directly around the delivery or stock area, so the operator can take a few samples and analyse them in a few seconds and give the supplier and the accounting department the result instantly.

The plant manager can organise the stock area according to moisture content for a better usage of the biomass delivered.

It is very simple to use:

Enter the delivery/supplier/truck reference using the touch screen, take a sample, place it under the instrument, push the start button to start the measurement which takes a few seconds, and repeat the operation two or three times. Then save the result and print it (optional).

The information can be accessed directly by the plant manager and the finance department. No more paper work, it's all integrated in the IT system and connected on internet.



The Spektron can also be installed directly above a conveyor belt to analyse moisture content in real-time. The system is flexible depending on how your process is organised. Prediktor always works in close coordination with the production managers to provide the best possible and most useful result in optimising your process.

Spektron Biomass has been certified in Sweden by VMK, a branch of SDC, as an approved method for determining the amount of moisture in a shipment, and directly validate the payment value for that shipment.

## Specifications

### Woodchip Sampler

Dimension	H: 1650mm W: 686mm D: 545mm
Weight	110kg
IP Grade	41
Network Communication	LAN/GPRS

### Spectrometer

Spectral Range	960 - 1690 nm
Repeatability	< 0.02 nm
Spectral distance of pixels	Approx. 3nm
Detector	256 pixels InGaAs diode array
Measuring Area	Up to 100mm in diameter
Measuring Distance	0 - 800mm
Analysing Time	< 100ms
Integration Time	0.5ms - 600sec.
IP Grade	65

### Panel PC w/Touch

User Interface	Web portal
Interface to control system	OPC, others on demand
IP Grade	65



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