

### QUALITY CONTROL SYSTEM - QCS

### MOISTURE & BASIS WEIGHT MEASUREMENT WITHOUT RADIOACTIVE SOURCE

#### Get your targets quickly:

- Increase Production
- Decrease Wastes
- Improve Quality of the Paper
- Get Desired Regularity
- Save Energy and Raw Material
- Regulation & Control

Flexible and Open Systems based in standards like Windows 10, OPC, ODBC, SQL Server, etc. Taylor made Applications following each customer requirements.

Online Measurement of all needed parameters for each application: Basis Weight, Moisture and Crepe Index.

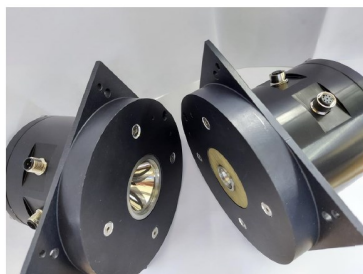
Automatic Control and Regulation of desired variables: Basis Weight, Moisture, Steam Pressure, Hood Temperature, Consistency, etc.

Basis Weight and Moisture CD Profile Automatic Control.

**High Precision Measurement, No Contact Sensor, Basis Weight and Moisture in just One Sensor *Without Radioactive Source*.**



MEASURE	RANGE	PRECISION	REPEATABILITY	TEMPERATURE
BASIS WEIGHT	10 - 50 gr/m2 Virgin Pulp	0,1 gr/m2	0,05 gr/m2	20°C to 70°C without Cooling
MOISTURE	2 - 12% H2O	+/- 0,05 %	+/- 0,05 %	

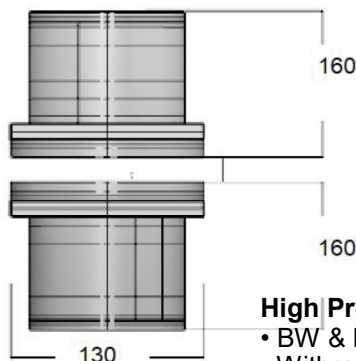
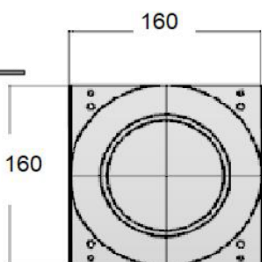
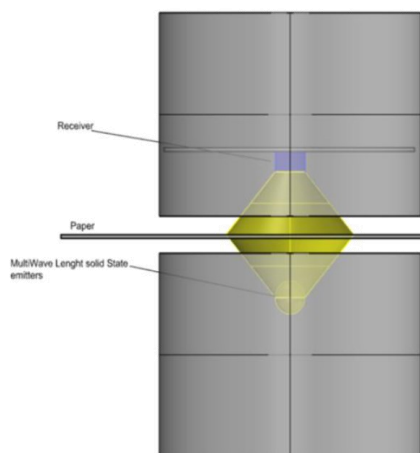


#### Principle of Measurement of IBW-40 Sensor

When a certain substance is irradiated with mid-infrared rays, some of the rays are absorbed by the substance. The wavelength of the absorbed mid-infrared rays and the absorption level (absorbance or transmission) are determined by the substance.

Therefore, when the absorption spectrum for mid-infrared rays is measured, the spectrum specific to the substance can be obtained.

Thanks to this property it is possible to measure the moisture and the cellulose fiber weight in the paper web. Transmittance measure is archived with two sensors, emitter and a receiver with multi-waves IR.



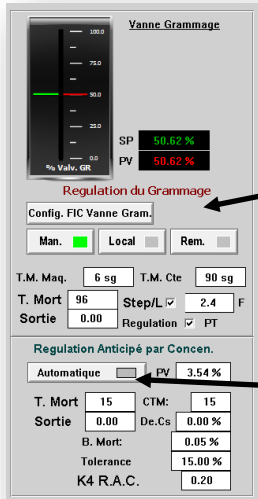
- Case in aluminium
- 30mm gap sensors
- 2.5 kg weight each head
- Ip65 protection
- AutoClean system



#### High Precision Measurement:

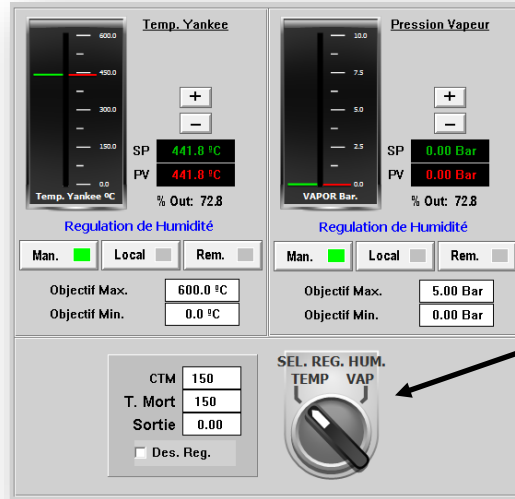
- BW & MO in Just One Sensor
- Without Radioactive Source
- No Contact
- Easy Calibration
- No Cooling Liquid





**Basis Weight Control**

**Predictive Control with Consistency**



**Moisture Control with Steam Pressure or Hood Temperature**

### CONDITIONING & PREPARED SCANNER FOR AGGRESSIVE ENVIRONMENT



The **smartSCAN** "O Frame", has a cleaning system in Parking Area, specific designed for Tissue machines with a lot of dust in the environment. A centrifugal blower Pressurize the scanner, avoiding the dust and humidity going inside the scanner, keeping the mechanic inside totally clean and in a perfect state.

**Parking Area Cleaning**



**Pressurization Blower**



**Continuous Cleaning Between Sensors Heads**



A Continuous Cleaning between the sensors heads, allows to keep clean the measurement windows of the sensors, through special blowing nozzles. With this air curtain, the dust does not affect to the measurement, so an optimal MD and CD Basis Weight and Moisture measurement and control is achieved.

