INFRARED SENSORS
FOR PAPER WEB PARAMETERS

MOISTURE SENSORS
BASIC PULP WEIGHT SENSORS
ASH SENSORS
A 327 INFRARED WEIGHT AND MOISTURE SENSOR FOR PAPERBOARD AND PAPER WEB

A 327 infrared weight and moisture sensors for paper (paperboard) web implement the patented method for the measurement of infrared (IR) light transmission coefficients of paper (paperboard) web using three measuring and reference wavelengths. Measuring and reference wavelengths are selected within a range of 1.3–2.3 µm or 3-4 µm, depending on paper web weight. A 327 sensors are not sensible to temperature change within the operating ambient temperature range due to high stability of the light-sensitive resistor's output performance provided a thermoelectric microprocessor thermostatic system and air blasting.

A 327 infrared weight and moisture sensors consist of a microprocessor processing and indication unit, an IR-emitter unit, a microprocessor receive unit and a power supply unit. Transmit and receive units are installed on the bracket on the opposing sides of paper web.

Ranges:
- moisture control 0 - 20%
- 1 m² weight control within three ranges 1÷50 g/m² 10÷200 g/m² 50÷500 g/m²

A 327 CAN INFRARED WEIGHT AND MOISTURE SENSOR FOR PAPERBOARD AND PAPER WEB

A 327 CAN infrared weight and moisture sensors are designed for the continuous noncontact control of paper web weight and moisture as a part of A 3000 automated quality control system and consists of optical circuits used in an A 327 instrument.

A 327 CAN sensors can also be used for the upgrade of quality control systems of other manufacturers. A paper web weight and moisture meter consists of two units: transmit unit and receive unit installed on scanning device of A 3000. Received data are transferred to the operator station of quality control system using CANOpen communication protocol. A 327 CAN sensors are not sensible to temperature change within the operating ambient temperature range and it can be easily installed in any quality control system on the condition of the application of the required communication protocol.

Ranges:
- moisture control 0 - 20%
- 1 m² weight control within three ranges 1÷50 g/m² 10÷200 g/m² 50÷500 g/m²
AQUAR-1108 REFLECTIVE TYPE INFRARED SENSOR FOR THE MEASUREMENT OF THE MOISTURE OF SHEET AND LOOSE MATERIALS

Reflective type infrared moisture sensors for sheet and loose materials AQUAR-1108 are designed for noncontact moisture measurement of sheet materials (paperboard and paper web, chipboard, cellulose, etc.) and loose materials (chipped wood, sand, mineral fertilizers, etc.) in technological processes as autonomous units or as a data measuring part of SCADA.

AQUAR-1108 moisture sensors consist of transducer and microprocessor units. A meter is located on the one side of the monitored material and uses the IR-light reflected from it.

The advantage of this meter lies in the high signal-to-noise ratio as the monitored material is exposed to high levels of IR-light exceeding the background noise.

The metering microprocessor unit processes the received signals using the specialized algorithm taking into account the physical and chemical properties of the monitored materials.

Moisture control ranges:
- 0 - 1%
- 0 - 20%
- 0 - 80%

A 331 INFRARED MOISTURE, WEIGHT AND ASH CONTENT SENSOR

A 331 infrared moisture, weight and ash content sensors are designed for the continuous noncontact control of moisture, weight and ash content of paper web during the paper production process flow.

A 331 infrared moisture, weight and ash content sensors represent new generation intellectual sensors developed using the latest advances in fiberglass optics and microprocessor technology.

The control of paper web parasensors is based on the application of the patented optical circuits for the measurement of infrared (IR) light transmission and diffusion coefficients of paper web on several wavelengths.

These sensors can be used as autonomous units or as a data measuring part of automatic moisture, weight and ash content controllers for paper web.

Ranges:
- moisture control 0 - 20%
- 1 m² weight control 10÷200 g/m²
- ash content control 0 - 35%
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