FrontColour 5

On-line Brightness Meter



NEW VERSION WITH A WINNER PRICING

Advantages

- Problems are solved fast and downtime is minimized to maintain production quality
- Immediate readings of brightness
- Data is archived and older data can be retrieved for comparison and reporting
- Stable meter gives reliable results, no need to recalibrate daily
- Meter can be moved to other positions or production machines, simple assembly
- Process control can use the analog outputs or the small control files optionally generated regularly
- Laboratory use facilitates recipe work

Benefits

- Used for pulp, printing, boards, papers and many fibre materials
- Quick measurements, readings and reports
- Installed to many positions in production machines
- Simple to use, accurate readings, excellent stability
- One sensing head, self-calibrating optics
- A really economical price

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VISILAB SIGNAL TECHNOLOGIES

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Main Features of FrontColour 5

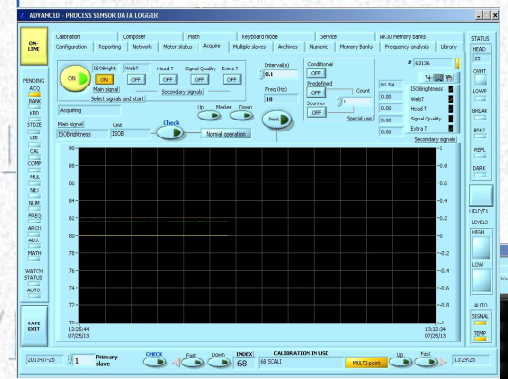
- applications in pulp and paper industry, textiles, felts, recycled fiber, packaging papers and liners, plastics
- TAPPI R457 Brightness according to CIE 1964 10° geometry, 0° /45° illumination/measurement
- simple to use but has useful features for advanced work
- for single-point or scanner use in on-line QC measurements, measuring distance 200 mm
- wide Brightness range starting from 0 up to about 150, calibrated at 100 units, works fine even near zero
- self-consistent, power supply included, ready to start
- fast response, selectable digital filtering, 10 points per sec sampling and updating of data
- applies special LED and signal processing technology for getting the fastest and most stable response
- superior stability, based on proven technology of Visilab
- the price is extremely competitive and the payback time is short
- **200 mm** working distance relieves from dust and dirt accumulation

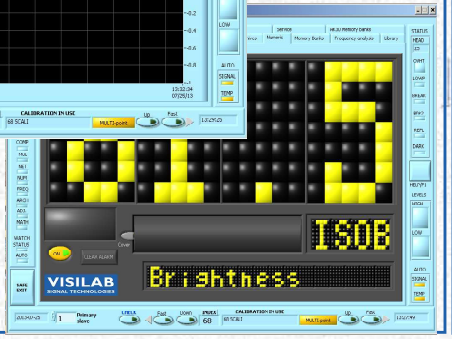
Data logging features

- Sampling & output rate 10 Hz
- operating distance: 200 +/-4 mm
- measuring area 35 mm in diameter
- repeatability < +/-0.2 Brightness units
- noise level typically < 0.1 standard deviation in Brightness units for a running pulp web
- stability < +/-0.2 Brightness units / year
- factory calibrated to a NIST traceable reflectance standard to 100.0+/-0.2 Brightness units
- memory bank for holding up to 500 sample data points
- memory bank can be downloaded to a PC
- autotimer sampling, adjustable sampling interval and batch size up to 500, also an external hardwired trigger
- The number of memory banks is 820 max and can be downloaded to the PC for reporting
- extremely low noise level (typically < 0.02 BU stddev)
- large calibration table library (100 tables) with rapid switching (not likely needed)
- calibration with multiple points for linearization (2 - 10 points)
- high immunity to external light radiation, web speed, external lights
- long service interval 150 000 h
- immune to surface texture as long as within distance range
- self calibrating by optically multiplexing the light source
- very low power consumption (< 5 W), no water cooling, cool air purge to the outside is sufficient in difficult conditions

Interfaces and physical properties

- dimensions 270x270x120 mm, weight 2.90 kg
- sturdy IP67 enclosure
- analog outputs for Brightness and temperature, voltage range settable and scalable
- regular RS232 via cable at 9600/115200 for PC's COM port, USB
- the free **AK30 PC** programs are data acquisition softwarefor trend display, data archiving, manipulation, reporting
- when meter configuration is saved, meter starts the next session like that





Ambient conditions

- operating -10 ... +50 C, needs air purge if over +45 C
- fully temperature compensated
- IP67 case
- optical windows can be cleaned if water condensation or dust

Optional accessories

- a Bluetooth connection wireless link is available
- a reflectance standard, NIST traceable
- license for the Advanced program

Your nearest dealer:

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