



ROCMATIC-HMI

cone drying monitoring with automatic shutoff



Description:

A device to monitor the amount of residual moisture in cones during the drying process, suitable for natural and man-made fibres and featuring the automatic shutoff of the air dryer.

The data shown below refer to measurements taken at one point; however, up to four points can be used (on demand).

Applications:

Hot air cone dryers, yarn dryers in general.

Functions:

- Measurement of the residual moisture content in the material, fibre selection (nr. 15 pure fibres + nr. 42 mixed fibres)
- Wide moisture measurement range (e.g. Cotton 0.8% - 23,3%; wool 4,5% - 46,6%)
- The machine will stop once the desired moisture level has been reached
- Treated/dried fibre selection. In models with more than a single input for measuring residual moisture, different fibres can be selected and different dryers be connected (up to four inputs can be available)
- All set parameters and the relevant values are recorded and residual moisture data are charted
- Data can be downloaded via the USB port on the front panel or through an Ethernet connection
- Data are displayed as web pages ; these can be remotely accessed on the LAN using computers, smartphones or tablets
- Remote support (LAN access via a VPN)

Benefits:

- Production quality is constantly monitored (no reprocessing required)
- Production optimization
- The system will store the sequence of treatments and their parameters
- Easy to use (all machine operators shall work in the same way)
- Easy to assemble
- Energy saving
- An automated processing management becomes possible (The dryer will stop once the desired moisture level has been reached)
- Only requires minimal routine maintenance





Technical specifications

Features:

7-inch touchscreen colour monitor in a metal case, showing residual moisture measurements by means of colour bars (green/amber/red). Remote unit in a second metal housing.

(Up to 4 dryers can be run on a single device for a total of 16 needle sensors).

Dimensions:

- Touch screen display metal case (l 300 x h 300 x d 120 mm), weighing 6 kg ca.*
- Remote unit metal case size: l 500 x h 500 x d 200 mm, weighing 18 kg ca.*
(maximum distance between the units: 10 m)

*Size and weight may vary depending on the chosen configuration

Peripherals:

- **Inputs**
 - 1 to 4 needle sensors for each dryer
 - Special needle sensors for high temperature applications
 - Three drying progress warning lights (green = moist, amber = dry, red = very dry)
- **Outputs**
 - 1 analogue output 0 – 4/20 mA (measured amount of residual moisture)
 - 1 relay connector (dryer stop)
 - 1 for an additional module with three warning lights (green/amber/red)
 - 1 Ethernet port
 - 1 USB port

Power supply:

- 230V 50/60 Hz , current: 100mA - 230V (120V 60 Hz available on demand)

