Moisture Measurement Solutions - Food Processing

Technological principle

Transmission of **co-polar microwaves** through
the material to a special **patented reflector plate**

iScan Online

Online moisture measurement of products above a conveyor belt.

iScan Laboratory

Also available as a laboratory version.

intelscan

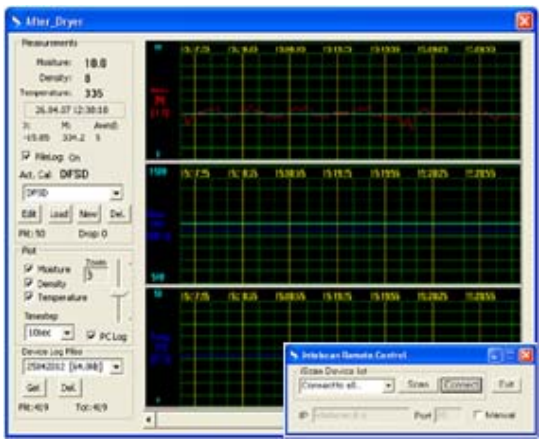
iScan Silo

For products that are flowing through a holding bin, buffer or silo.

iScan Pipe

Online moisture measurements in a continuous flow of liquids inside a pipe.

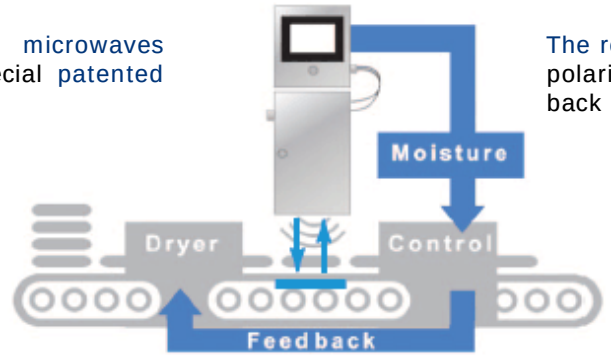
Main display of the iScan



Ethernet remote control and data storage

Technological principle

Transmission of co-polar microwaves through the material to a special patented reflector plate



The reflector plate changes the polarisation and reflects waves back to the sensor.

The attenuation and phase change of the signal that has travelled twice through the material is measured. The effects from reflections of surrounding surfaces are minimized by confining the area of measurement. Based on this measurement principle, only one calibration is needed for many types of recipes, colours, sizes and density.

Specifications

Accuracy	± 0.5% (or better) compared to standard dry oven reference
Density accuracy	± 15 g/l
Measuring range	0 – 90% moisture content
Measuring update	1 – 30 seconds (adjustable)
Calibration settings stored	Unlimited
Network	Ethernet connectivity
Measurement output	Industry standard 4-20mA and 0-5V outputs for moisture temperature or density
Digital IO	Multiple in- and outputs
Data Storage	Locally with a Removable Flash Disk, anywhere remotely with a network connection
Tested to safety standard	IEC 61010-1
Dimensions	
Sensor	145 x 105 x 75 mm
Display unit	240 x 240 x 150 mm
Material	Stainless steel
IP protection	Sensor – IP65 / Display unit – IP64
Power consumption	
Sensor unit	<7 W
Display unit	<12 W
Electrical	
Power	110-240V, single phase 2A supply
Frequency	
Microwave output power	<200 mW

Artec Testnology

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