

MMA™ - 9040/Plastic

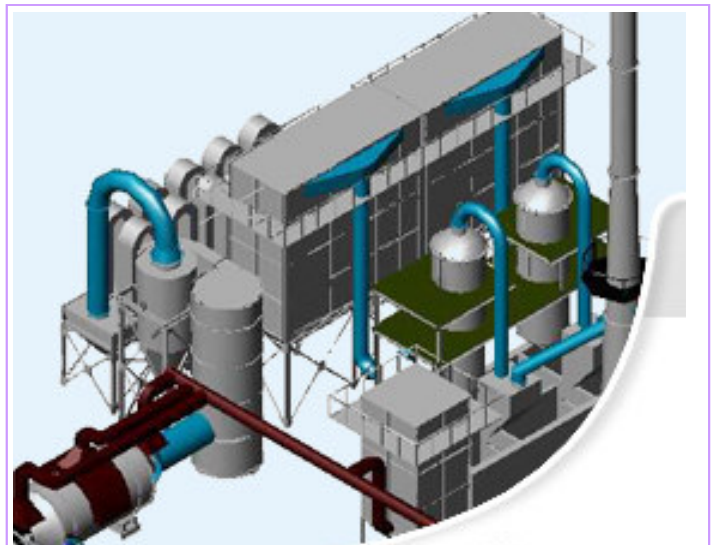


Online & inline microwave moisture & density deviation measurement analyzer using Sub-Terahertz propriety technology for Plastic chips

MAIN FEATURES

- High performance resolution – Up to 25 ppm
- High accuracy – up to 50 ppm
- High repeatability – better than 2 sigma
- Whole volume measurement of material
- Online measurement with no interruption to process
- Very low maintenance costs
- Calibration (checking) only once a year!
- Real time results
- No physical contact with materials
- Not sensitive to ambient conditions, temperature or color of materials
- Can work under extreme environmental conditions
- Automatic storage and analysis of results
- compliance with all major industry standards

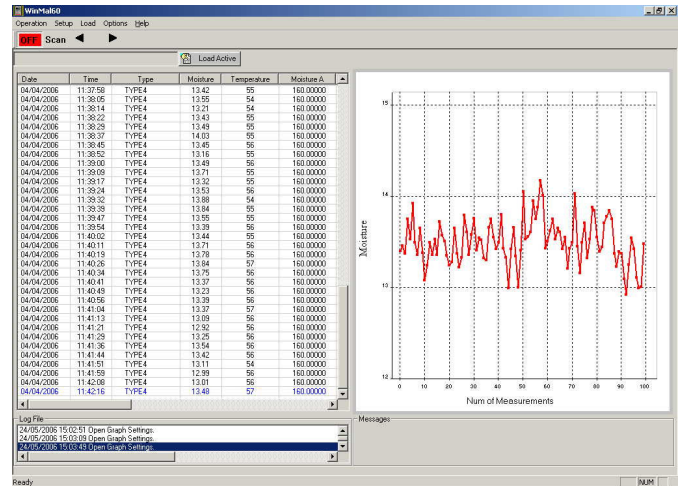
The MMA-9040 is a non-contact online and inline analyzer, which scans whole volumes of plastic chips on conveyors and silos, and measures their internal moisture and mass-flow deviation (optional) levels. Based on MALCAM's highly successful series of analyzers, the MMA-9040 provides a solution to a pressing need for fast and highly accurate water content control for the plastic industry without any interruption to the process.



MAIN BENEFITS

- Increase product quality and value
- Increase production yields
- Enhanced process control
- Optimize manufacturing efficiency
- Low cost and fast ROI

Optional WinMal s/w enables display graphs , data base recording, scenarios setup, testing and calibration of the MMA-9040



The MMA-9040 provides better mapping accuracy than any of the traditional inline or laboratory measurement methods in use today. Operating under both digital and analog links, MMA-9040 enables instant availability of all analysis results and data throughout the plant.

The MMA-9040 is designed with a completely open architecture, enabling the creation of totally integrated system customized to specific plant requirements, and the incorporation of any combination of accessories and services.

Connectivity to plant process control systems is facilitated via RS-232/422 or (optional) Ethernet (TCP/IP), analog industry standards, remote control and data logging, and other data links. Connectivity can also be customized, if required, to data links such as DeviceNet and Profibus (is optimal).

The MMA-9040 offers an optional easy-to-read graphic displays, which allow engineers, plant managers and executives to interpret process conditions and make decisions, thereby reducing material costs and improving quality.



SPECIFICATIONS

Output Signals	0-10 VDC, 4-20 mA current signal; RS-232; moisture display (via DDU) and measuring indicator; alert signal (optional).
Input Signals	4-20 mA current signal; temperature sensor input -build in.
Scanning Speed	Less than 1msec per macro slice. Can be tunable to conveyor /silo speed.
Operating Temperature	-5 °C to +50 °C . Extended version: -10 °C to +70 °C
Humidity	20-80%, non-condensing.
MCP-Tool s/w	Malcam's Loading Calibration and other parameters software tool via RS-232 , running under any Win2000 or XP windows PC

ABOUT MALCAM

MALCAM Ltd. Is an ISO-9001 company that specializes in online and offline moisture and density deviation measurements systems and advanced software tools for industries that automatically process bulk and packaged material.

Established in 1994, the company holds several international patents and its systems are operational in hundreds of sites worldwide.

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