



MCBALANCE

- ✓ Capable of dosing at extremely low dosage rates
- ✓ Continuous loss-in-weight measuring
- ✓ Automatic material calibration
- ✓ Integrated hopper loader control
- ✓ Recipes storage function
- ✓ 8 inch full color touch screen
- ✓ Industry 4.0 ready

MCBALANCE

Gravimetric high precision dosing

The MCBalance* is the highest standard in gravimetric dosing. It proves its value on a daily basis in all branches, under all circumstances in injection molding, blow molding and extrusion. The dosing cylinder and patented weighing technology ensure extremely accurate dosing, even when low dosage rates are required. In this way, high savings on expensive additives can be achieved. The continuous loss-in-weight measuring feature and automatic motor speed adjustment are key to a stable production process. This guarantees high quality end products and fewer rejects.

Maximum control, efficiency and savings for plastics producers

Benefits

Extremely accurate dosing

The dosing cylinder releases the additive in a steady flow. The stepper motor ensures maximum control with no stoppages or pulsations. There is no other method in the world as accurate as this.

User-friendly

Anyone can operate the MCBalance. Moreover, MCSmart enables you to monitor all your MCBalance units from one computer. Additives can be changed in less than 60 seconds and the units are easy to clean.

Modular system

The MCBalance is a modular system that can be configured easily to your needs: for dried materials, for regrinds, for free-flowing powders, multi component extrusion or with integrated hopper loaders.

Gravimetric in-line dosing system MCBalance offers plastic producing companies maximum control, maximum efficiency and maximum savings. Through continuous loss-in-weight measuring, one is ensured of the best results for the best price. The MCBalance dosing system continuously calibrates the dosages and adjusts automatically. The MCSmart system enables the producer to monitor all MCBalance dosing systems from one computer. Plastic processors worldwide choose this gravimetric dosing unit for stability in coloring with masterbatch, powder or regrind. This gravimetric unit can easily be adjusted to a multi-component system, so that you can dose up to six additives at the same time!

"The MCBalance is the best investment when it comes to dosing. The payback period was six months and that is quite extraordinary."

**also for clean room and high temperature applications*

Specifications

APPLICATIONS

Injection molding, extrusion and batch dosing

COMMUNICATION

Modbus TCP/IP, Profibus***, Profinet***, OPC/UA***

DATA STORAGE

Internal memory (static changes), MCSmart datalogging software (dynamic changes), 1,000 recipes storage

INPUT SIGNALS

Start input: potential free, 24 VDC. Extrudertacho (0-30 VDC)

OUTPUT SIGNALS

Alarm, warning, run, valve (for hopper loader control), 2x0-10 VDC** or 4-20 mA**
Optional extra two analog inputs and two analog outputs (0-10 VDC or 4-20 mA)

Recipe functionality

Upload recipes to controller

Trouble shooting options

Full remote operation

NUMBER OF COMPONENTS

Removable weighing bin and mixing chamber

CAPACITY

0.07-180 kg/h

Data logging options

SQL database

External communication

Standard PC link using TCP/IP or Modbus-TCP protocol

Hopper size

6L

LANGUAGES

English, German, Dutch, French, Hebrew, Turkish, Chinese, Thai, Japanese, Russian, Italian, Czech, Portuguese, Spanish, Indonesian, Polish, Korean, Hungarian, Swedish, Romanian****

POWER CONSUMPTION

150 Watt maximum (per component)

POWER SUPPLY

230 VAC, 50 Hz or 115 VAC, 60 Hz

System requirements

Windows 7, Windows 8, Windows 10

View options (summary)

Status overview multiple units



LEADERS IN DOSING TECHNOLOGY