

GraviCon 3000-Basic

Gravimetric mass throughput recording with throughput-, relations- and meter weight control

GraviCon 3000-Basic is especially synchronized for integration into Extruder regulation. Customerized communication will be coordinated and tested in common between customer and ConPro.

Additionally to gravimetric mass throughput regulation, our delivery range covers dosing system for pellets, mill charge, powder and fiber material.

Function

- Mass throughput recording
- Throughput control
- Meter weight control
- Surface weight control
- Working point control
- Dosing
- Alarm indication
- Superior operating ODAS

Interface

- Serial RS232/ RS485
- CAN-Bus or PROFIBUS DP
- Ethernet TCP/IP and power link
- 2 x USB
- X2X link
- Analogue- and digital- IO



Gravimetric is the first step for the automation of Extrusion lines.

Due to recording and control of the product weight, maximum savings will be achieved.

The final product shows a considerably lower fluctuation range, so waste and start-up scrap are reduced. Additional product weights are able to be reduced to a minimum by regulation.

As system captures the real throughput in kg/h, the regulation of fluctuation, caused by bulk density, material temperature or technical changes, can be corrected.

Technical data GraviCon 3000 Basic

Electronics

- 1 Ethernet-Interface 10/100/1000 Base-T
- 1 POWERLINK-Interface
- 2 USB Interfaces
- 1 RS232-Interface
- Integration slot for interface modules
- CAN for communication „Extruder Control“ –Option-
- Profi Bus for communication „Extruder Control“ –Option-
- CAN for motor control doser
- Slot for interface modules
- Mim. 256 MB DDR2 RAM
- 1 GB of RAM
- Exchangeable program memory: CompactFlash

Types of control

- Mass throughput control
- Relations control
- Meter weight control haul-off
- Meter weight control extruder/dosing screw
- Meter weight control with working point control
- Dosing control with regulation extruder/dosing screw and haul-off
- Control by analogue values, trim outputs, digital or communication
- Wall thickness program and roll change detection integrated
- Operating data recording is applicable

Control accuracy

Less than $\pm 0,4\%$ according to operating conditions – Mono - System

Less than $\pm 0,8\%$ according to operating conditions – Multicomponent -System

Voltage supply

By internal power supply unit 100-500V/ 50-60Hz or 24VDC $\pm 20\%$

Mechanics

Information about the extensive ConPro delivery program of S/M-KTW funnel weighers is available at the leaflet "S/M-KTW delivery range 2017". More than 25 years' experience, based upon the installation of more than 10.000 funnel weighers, argues for a market-leading technology.