

The advancement of technology continues to drive our business forward allowing us to provide bespoke solutions to most processing sectors. We have particular experience in grain and flour processing, feed and food production, breweries and malthouses and most other continuous bulk handling activities.

Services include:

- Design of Control Systems and Build of Control Panels
- Software engineering for PLC and SCADA software
- Integration of Control and Information systems
- Electrical Wiring and Installation
- Technical Support

Products include:

- Inline NIR process analysis
- Continuous weighing and batching technology
- Moisture Measurement and regulation

Full details available on: www.suffolk-automation.co.uk

For further details and a no-obligation discussion about your process control requirements, please contact:

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Rotor Weigher RC

Continuous weighing of poor flowing bulk solids

INFORMATION SHEET



OVERVIEW:

- Sealed dust-tight and maintenance-free system
- Low installation height, easy assembly
- Largely insensitive to vibrations
- Direct mass flow measurement with high accuracy
- Patented and proven measuring system

Rotor Weigher RC

Continuous weighing of poor flowing bulk solids

Application

The *Rotor Weigher RC* is suited for the following applications:

- Continuous weighing of bulk flow for implant control purpose and calculation of extraction
- Frequency controlled dosage for production of blends or additives

Applied products

A large number of poor flowing products can be measured, e.g. flour, powder and bran.

Function

A vertically aligned rotor is located inside the *Rotor Weigher*. It is driven at constant speed. The product is fed to the center of the rotor and accelerated to approx. 9 m/s. The occurring Coriolis force is gathered by a torsion spring and captured by a flux induction sensor. The system is completely proportional to the mass flow measurement. Material-specific characteristics such as flow characteristics or friction are not included in the measurement as errors.

Construction

The *Rotor Weigher* consists of housing, motor, gear transmission, driving axle, rotor plate and measurement instrumentation. The housing is dust-tight.

Sizes

The following sizes are available:

Type	Pipe diameter	Max. flow capacity	Installation height
RC100	150 mm	20 m ³ /h	823 mm
RC200	200 mm	50 m ³ /h	1057 mm

The housing is made of stainless steel, the inlet is round.

Integration

Inlet and outlet are supplied with flare tube ends. Product should be fed in straight direction. Air flowing through the weigher due to pressure differences must be prevented. If necessary a bypass pipe for pressure compensation must be installed.

Accuracy

The measuring tolerance lies at $\pm 0,5\%$, depending on feed design, product homogeneity and throughput.

Control panel options

External electronic type FE128

Available for panel mounting (24 V DC) or inside wall housing (230 V AC), can be installed independent from the dosing unit, connection of 1 weighing unit, with LCD-display and keypad, display of capacity and total weight, preselection function, output if kg-pulses and analogue output of capacity (0-10 V), graphic registration over 48h, RS232/485-interface.

