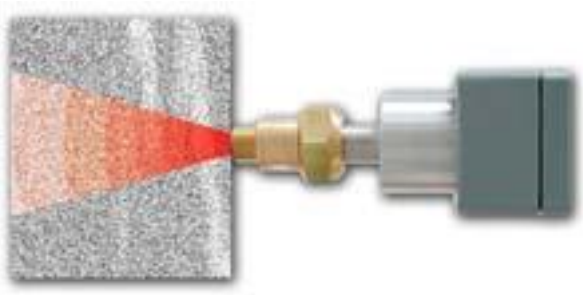
MY SFT11 solid flow transducer

The simple and reliable flow measurement for solids in pneumatic- and gravimetric conveying systems - Solid flow measurement for:

Chemical industry - Plastic production - Cement industry - Pharmaceutical industry - Food industry

The MY SFT11C Microwave Measuring System consists of a sensor head with stainless steel pipe that acts as a waveguide and the electronic unit. To mount the equipment a hole for the mounting plug is first drilled in the conduit. The sensor is installed in line with the wall and therefore is wear-free.
Simple installation in existing pipe work measurements. Flush with wall and non-contact maintenance-free detecting only ”moving“ particles. High operating safety, suitable even for very small flow rates.



The system is virtually unaffected by pressure and temperature and provides a typical accuracy within +/- 5 % in pneumatic conveying systems (with even deviation of the product). The sensor can be use to monitor and control the solid flow in vertical pipes and pneumatic feed lines. For pipe diameters above 250mm it could be necessary to install 2 or 3 sensors for a better coverage of the particle flow profile.

The sensor face transmits a frequency of 24 GHz to the powder or grain material. The pulses are reflected from the particles and analysed via a special algorithm. The result is a flow proportional current output that is amplified and conditioned.
An optional instrument can display the flow value directly in kg/h and in absolute quantity (kg) (t).

Supply voltage:	24 VDC
Current consumption:	0,5 A
Measuring frequency:	K - Band (24, 125 GHz)
Output:	0 - 20 mA (not standardized)
Reproducibility:	+/- 2%
Operating temperature:	-10° C bis 65°C / optional 170°C
Sensor material:	stainless steel/ plastic or ceramic
Electronic enclosure material:	aluminium
Protection class:	IP 65
Mounting plug:	1/2“ NPT or as customer specific
Optional:	ATEX rating according to Zone 20
	Temperature up 500°C inside pipe

Meyer Industrie-Electronic GmbH – MEYLE
Carl-Bosch-Straße 8
49525 Lengerich/Germany
Tel.: +49 54 81-93 85-0
Fax: +49 54 81-93 85-12
Internet: www.meyle.de
E-Mail: sales@meyle.de

MY SFT11 solid flow transducer

The new generation of microwave solid flow transducers

The new MEYLE MY SFT11 transducer is based on the latest microprocessor technology used in mobile phones.

The microwave transducer measures the flow of solid particles in pipes. The sensor operates maintenance free and without contact to the product.

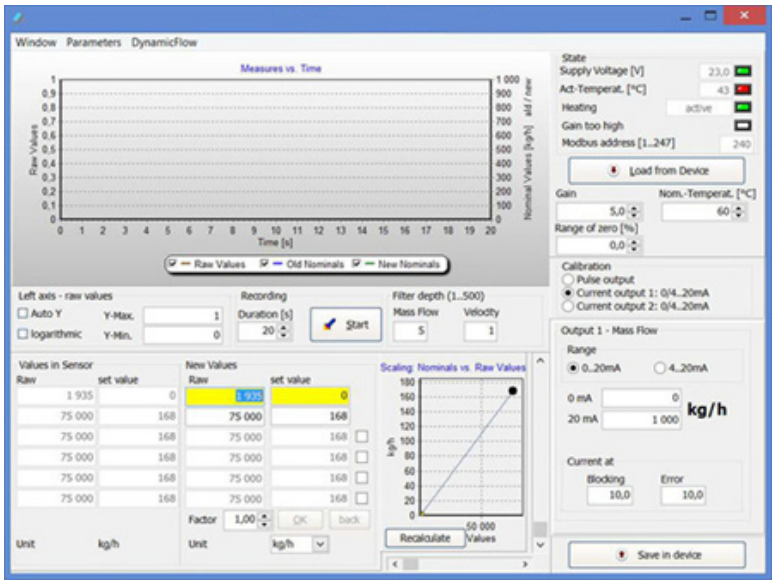
The stainless steel sensor tube (V4A) can additionally be protected with a ceram coating. This high temperature version is available for products up to 350°C.

A comfortable software is provided for calibration and service via the USB - interface. The transducer can be calibrated for 2 different products.

The transducer design is independent from the diameter of the measuring pipe.

The sensor can be equipped with the following interfaces: 2 x 4-20mA analogue output, pulse output (counter pulses / kg), Modbus or Can Bus...

An additional evaluation electronic is not required. During calibration the flow signal can be displayed on the screen of a PC/Notebook. The influence of the new calibration can be displayed in comparison to the "old" adjustment.



Alternative a simple, low cost flow detector is available with the same software but only with a transistor output for flow / no flow detection. The adjustment via the software is very easy to do.

Meyer Industrie-Electronic GmbH – MEYLE
Carl-Bosch-Straße 8
49525 Lengerich/Germany
Tel.: +49 54 81-93 85-0
Fax: +49 54 81-93 85-12
Internet: www.meyle.de
E-Mail: sales@meyle.de