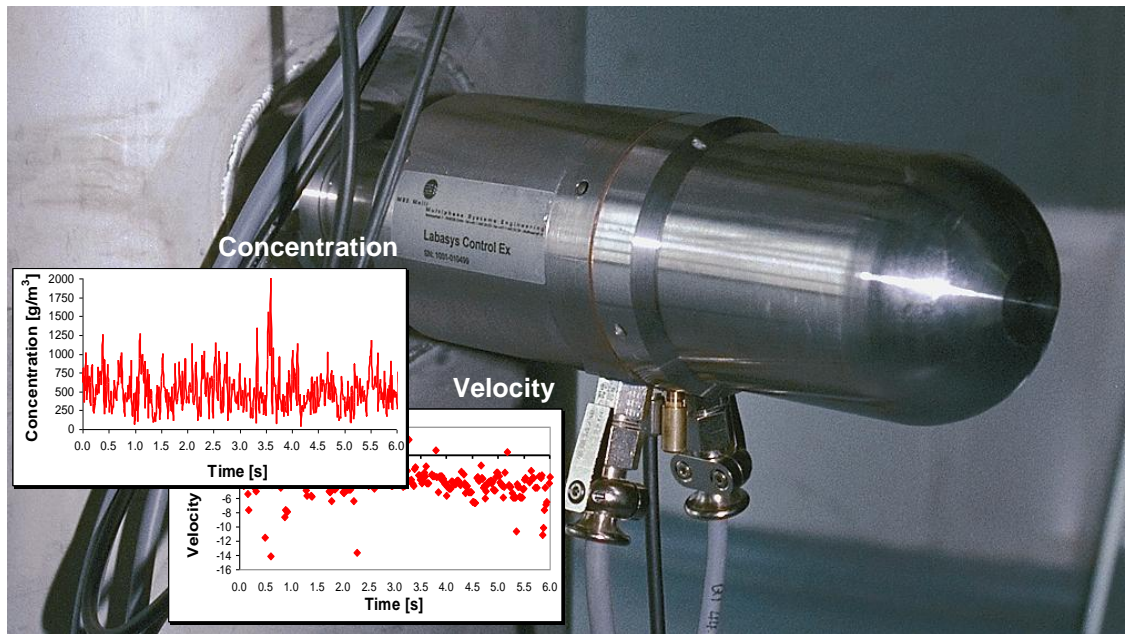


# Labasys<sup>®</sup> Control


## In-line Concentration & Velocity Determination



### Description

The measuring system LABASYS<sup>®</sup> Control Ex is a robust instrument for the **in-line determination of dust concentration and velocity** in gas solids flows. The measuring principle is laser backscattering. A special fiber optical design allows an unambiguous calibration. MSE Meili assists its customers obtaining accurate calibration data through its unique **calibration service**. A patented (pending) pneumatic cleaning mechanism prevents soiling even with sticky or moist products. An optional cooler allows the operation at elevated temperatures.

### Features

- **in-line** determination of **concentration** and/or **velocity** (optional).
- **explosion protected** for zones **10/11 gas** and **20/21 dust**:  II 1/2 GD EEx d IIC T6, CE mark.
- high sensitivity and accuracy.
- **efficient cleaning** unit allows for reliable measuring results even with sticky or moist products.
- **cleaning-in-place CIP** capable.

Suited for **in-line process & quality control!**

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Swiss Made Precision  
by **MSE Meili AG**

### Specifications

- **concentration (gas/solids suspension):**

Measuring range <sup>1</sup>		Measuring volume
Vol.-Concentration [vol.%]	Concentration <sup>2</sup> [kg/m <sup>3</sup> ]	Length [mm]
0.1 - 60%	1 - 1'500	2 - 8
0.0001 - 1%	0.001 - 10	10 - 150

<sup>1</sup> Range depending on optics and solids type <sup>2</sup> solids density: 1000 kg/m<sup>3</sup>

- **velocity (optional):** 0.05 to 200 m/s
  - **output signal:** 4-20 mA (concentration) or via PC
  - **process conditions:**
    - temperature: ≤ 110 °C non condensing
    - pressure: ≤ 10 bar (depending on connector)
  - **environmental conditions:**
    - temperature: - 0 to 40 °C without cooler
    - ≤ 80 °C with cooler
    - humidity: 0-99% non condensing
  - **enclosure:** IP 67
  - **material:** stainless steel 1.4404/1.4305
  - **physical dimensions:** Ø 150x400 mm, 15 kg
  - **connector:** screw joint DN 50 according DIN 11851
- Models with other specifications upon request.

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