

Concentration monitor for CMP-slurries **Aello 1551**

Aello 1551 is a measuring device to determine the concentration of nano scaled particles and to determine the type (material) of solids. It was specifically designed for in process installation and completes the Aello probe product range of plug in sensors. The main field of application ranges from automation for CMP slurry supply to waste water treatment. The used measurement principle gives the advantage of low operating costs and a reasonable purchase price. The device is easy to operate and to handle. The measurement data can be exported via standard interface to any external programs. A free programmable output permits a direct process control by the sensor.



Measurement of:

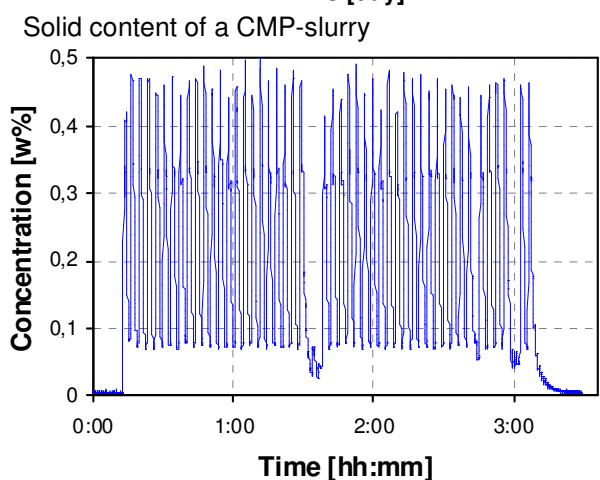
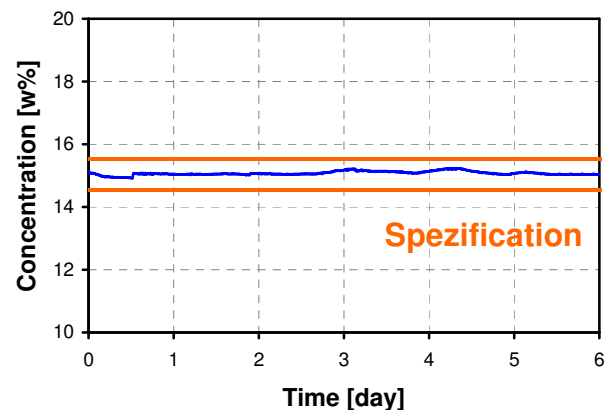
- Concentration of nano scaled particles
- Distinction of different kind of particles or droplets

Specification:

- Optical backscattering measurement
- Particular suitable for CMP-slurries
- Insensitive to gas bubbles
- Long term stable, robust
- Low maintenance demands
- Easy to handle and clean
- Sensor-integrated display
- Menu guided program
- Integrated micro controller
- Free programmable output
- Serial and analog interfaces

Typical applications:

- Control of CMP blending plants
- Concentration control for polisher
- Concentration measurement by PVDF-coatings
- Treatment of CMP wastewater
- Treatment of grinding sewage



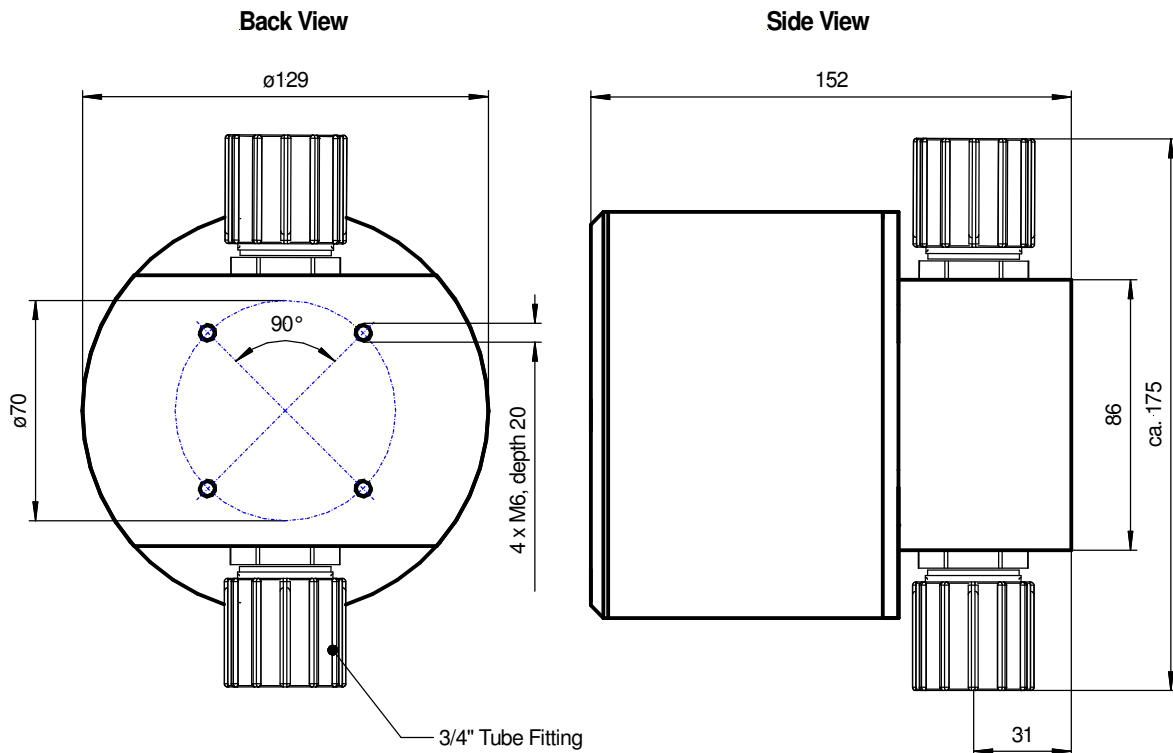
Solid content of wastewater after a polishing process

Technical data:

Measurement range:	0,05 – 30 weight- % (depending from behavior of the particle system)
Analog Output:	0 -10 V, 4 - 20 mA
Signal Output:	5 V, 100 KOhm
Communication via:	RS 232
Power supply:	24 V DC (18-36 V)
Pressure:	5 bar
Temperature:	-10 + 60 °C
Housing material:	PP gray
Sealing material:	NBR
Windows material:	Fused silica
Diameter:	129 mm
Length:	152 mm
Connection:	Flare Ware 3/4" fittings (optional NPT 3/4 ")

Other materials and set-ups for high-pressure applications and temperature on demand

Dimensions:



Dimensions of the Aello 1551 with Fare Ware 3/4" fittings