

EXcell 230 NIR Biomass Sensor



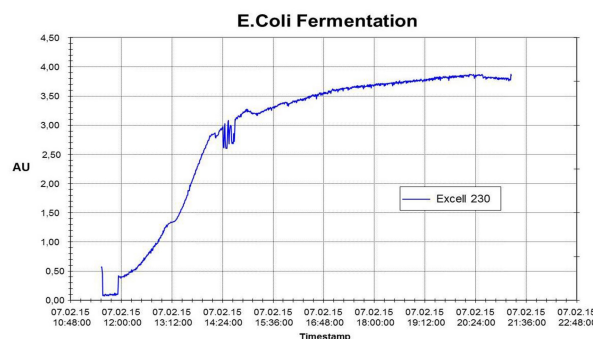
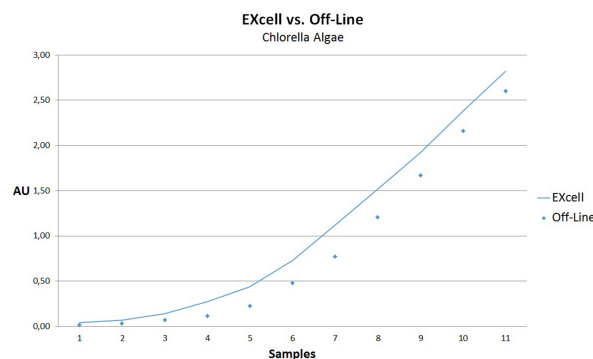
- » EBC / FAU / mg/l / AU / OD or customer defined units
- » high precision measurement up to 12 OD
- » standardized 12mm design with integrated amplifier
- » no traditional transmitter necessary
- » wearless sapphire windows, hygienic design
- » maintenance free due to LED light source
- » PC-connection via USB and EXpert software

EXcell 230 is a high precision digital NIR-absorbance sensor in 12mm-hygienic design monitoring biomass measurement in biotech, food and pharma applications for both laboratories and industrial production processes

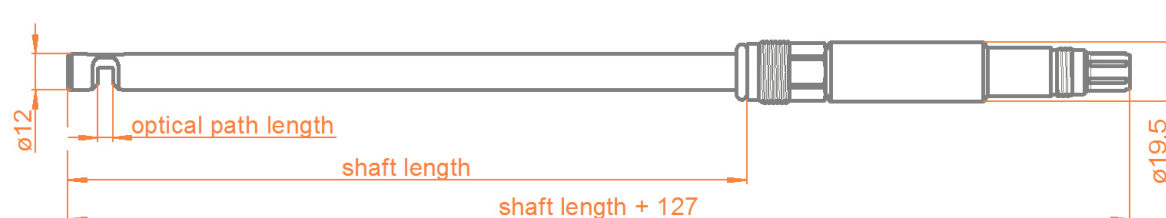
Specifications

measuring range	0...6 AU 0...6600 EBC
accuracy	99.25%
wave length	880nm
light source	LED
optical path length	5 / 10 / 20 mm
sensor length (mm)	120 / 225 / 325 / 425
wetted material	stainless steel 1.4435 (316L)
surface	Ra <0.4µm electrolytical polished
measuring window	sapphire
process connection	thread PG13,5
process temperature	0...90°C, 135°C max. for 2 hours (SIP cycle)
process pressure	max. 10 bar (150 psi)
electrical connection	VarioPin 6 pol
cable length	2m / 5m standard, 15m maximum
interfaces	USB, RS485 Modbus, 0...20mA with switching output

Typical Measurements



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Ordercode

Code	Shaft diameter	Delivery
12	12 mm 1.4435 / 316L	2 weeks

Code	Shaft length	Delivery
120	120mm	2 weeks
225	225mm	2 weeks
325	325mm	4 weeks
425	425mm	4 weeks

Code	Optical path length	Delivery
05	5mm	2 weeks
10	10mm	2 weeks
20	20mm	2 weeks

Code	Process Connection	Delivery
PG1	Thread PG 13.5	2 weeks

Accessories



Communication Interface ECI-03 - 0...20mA
including switching contacts



Communication Interface ECI-02 RS485
Modbus



EXcap 110 - set of optical reference filters