

Introducing Exner's In-Line Sensor

# EXcell



## About EXNER Process-Equipment

Based in Ettlingen, Germany, EXNER develops and produces high-quality armatures and control systems integrating process sensors of variable parameters and optical sensors into various industrial sectors worldwide.

Clients from various industrial sectors such as water treatment, chemicals, power plant, food, pharmaceuticals and others maintain continous and longtime business relations to Exner and benefit from our consulting and application services. In addition Exner offers its parts to OEM partners around the globe.

### EXNER's Cell Growth Sensor "EXcell"

#### Main advantages and benefits:



- » High density measurement range up to 7 AU (Absorption Units)
- » Integrated measurement amplifier, no additional (standard) transmitter required
- » Real-time in-line measurements with a huge amount of data points and an outstanding rapidity and repeatability
- » Revision and re-calibration by optical filters, no chemicals needed
- » Simple calibration against existing off-line standards
- Switchable to all current turbidity units e. g. TEF, FTU, EBC, mg/l
- » Free configurable and adjustable unit of measurement (Customer Defined Unit)
- » Hygienic, maintenance free design applicable to changeover devices for automated cleaning of the optical unit such as EXNER's Extract Series
- » Connectable via USB, Modbus RS485 and 0-20 mA-Interface







# EXNER's EXcell – Sensing your needs.

The ExCell probe is easily applicable in many industrial sectors, such as:





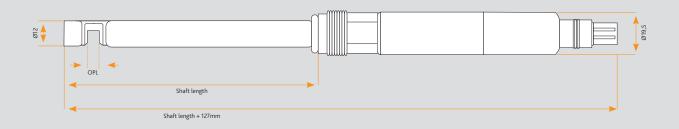


#### **EXcell 230 Specifications**

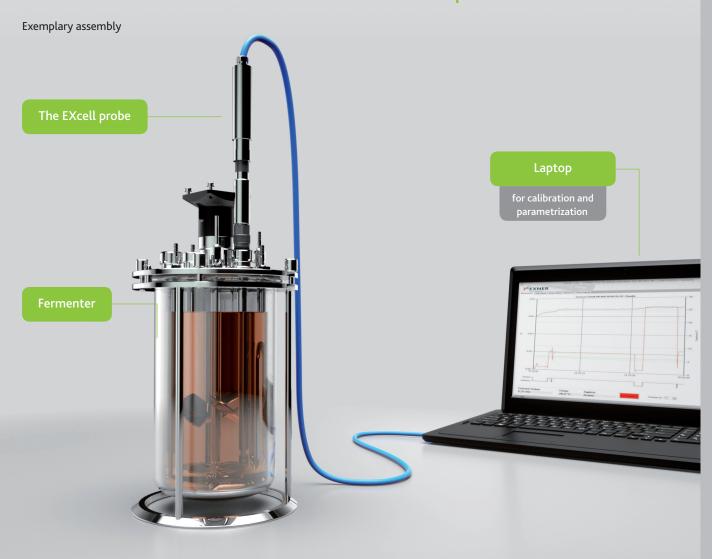
Measuring Range	07 AU 07.700 EBC
Wavelength	880 nm
Light Source	LED
Optical Path Lengths	5, 10, and 20 mm
Wetted Materials	Stainless Steel 1.4435 (316L)
Surface Finish	electropolished Ra >0.4 μm
Windows	Sapphire
Cable Connector	VarioPin 6 pol

Cable Length	2 and 5 meter standard,
	15 meter maximum
<b>Process Connection</b>	PG 13.5 Thread
Process Temperature	0 to 90 °C, 135 °C
	maximum for 2 hours (SIP cycle)
Process Pressure	10 bar (150 psig)
	maximum at 25 °C
Probe Length	120, 225, 325, 425 mm
Interfaces	USB
	Modbus RS485
	020mA and contactors

#### **Dimensions**



# EXNER's EXcell – In line with Your process.







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