

## EXcell 241 NIR Biomass Sensor DN25



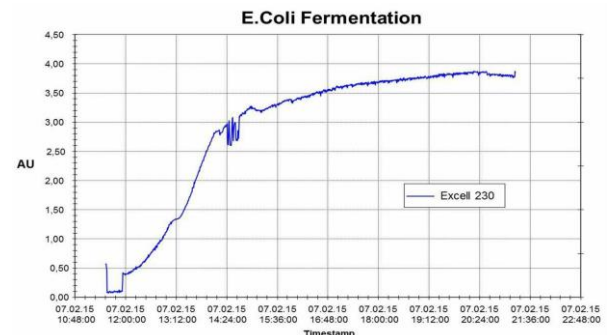
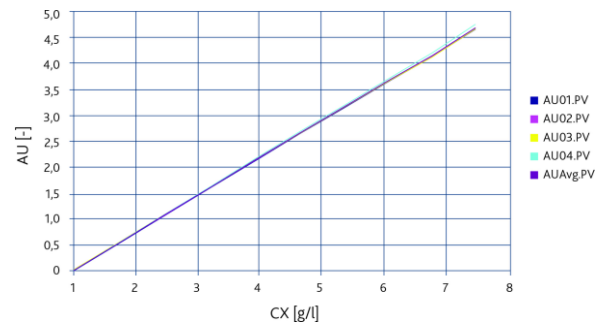
- » EBC / FAU / mg/l / AU / OD or customer defined units
- » Design for DN 25 weld-in sockets
- » With integrated amplifier
- » No traditional transmitter necessary Wearless
- » sapphire windows, CIP/SIP suitable Hygienic design, autoclavable
- » Maintenance free due to LED light source

EXcell 241 is a high precision digital NIR-absorbance sensor for DN25-weld in sockets monitoring biomass measurement in biotech, food and pharma applications for both laboratories and industrial production processes

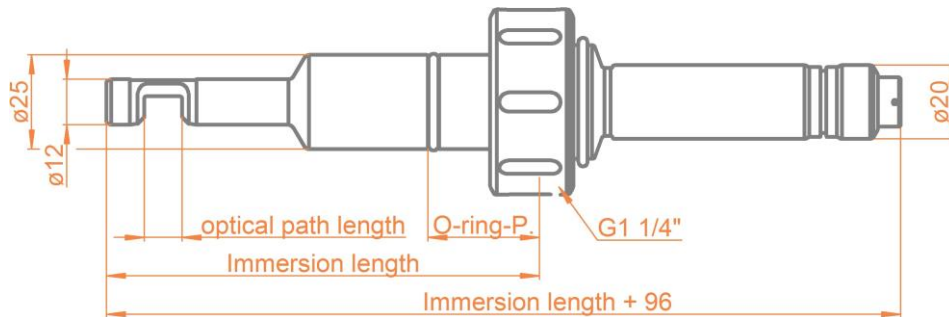
### Specifications

Measuring range	0..6 AU, 0..6600 EBC
Accuracy	99.25 %
Wave length	850 nm
Light source	LED
Optical path length	5 / 10 / 20 mm
Sensor length	70-85 mm / 110-125 mm
Wetted material	stainless steel 1.4435 (316L)
Surface	Ra <0.37 µm electrolytically polished
Measuring window	sapphire
Process connection	thread G1 1/4" (DN 25)
Process temperature	0..90 °C, 135 °C max. for 2 hours (SIP cycle)
Process pressure	max. 10 bar (150 psi)
Electrical connection	Fischer Core Series
Cable length	2 m / 5 m
Interfaces	USB, RS485 Modbus, 0..20 mA with switching output

### Typical Measurements



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### Ordercode

Code	Measuring range	Delivery
C	0...6 AU / 0...6600 EBC / 0...12 OD	3 weeks

Code	Immersion length h	Delivery
070	65mm + optical path length h	3 weeks
110	105mm + optical path length h	3 weeks

Code	Optical path length h	Delivery
05	5 mm	3 weeks
10	10 mm	3 weeks
20	20 mm	3 weeks

Code	O-ring position	Delivery
25	25 mm	4 weeks
28	28 mm	4 weeks
29	29 mm	4 weeks
30	30 mm (for standard weld-in socket)	3 weeks
35	35 mm	4 weeks
50	50 mm (only for immersion length code 110)	4 weeks
55	55 mm (only for immersion length code 110)	4 weeks

Code	Sealing material (wetted sealings)	Delivery
EPD	EPDM/FDA/USP VI	3 weeks

### Accessories



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



Communication Interface ECI-02 RS485 Modbus



EXcap 110 - set of optical reference filters