

NICO plus

16AXX10X0



The new all-rounder from TriOS - Now with a new turbidity compensation*

As a new all-rounder, NICO plus not only offers the parameters $\text{NO}_3\text{-N}$, NO_3 , $\text{NO}_x\text{-N}$ and NO_x previously known from NICO, but has now been expanded to include numerous parameters. These include UVT_{254} , UVT_{254n} , SAK_{254} , CSB_{eq} , BSB_{eq} , TOC_{eq} , DOC_{eq} , turbidity and TSS_{eq} .

An internal temperature correction additionally increases the stability of the measured values.

Equipped with our innovative G2 interface with web browser configuration and internal data logger, NICO plus has features that are significantly above the currently available devices on the market, in combination with an attractive price.

The instrument platform of all TriOS photometers stands for uniform spare parts and consumables and universal use of the wide range of accessories.

Parameter	Measuring range (at 10 mm)	Detection limit
NO_3	0.22... 26.6 ppm	0.22 ppm
$\text{NO}_3\text{-N}$	0.05...6 ppm	0.05 ppm
NO_x	0.22... 26.6 ppm	0.22 ppm
$\text{NO}_x\text{-N}$	0.05...6 ppm	0.05 ppm
UVT_{254}	25...96.6 %	96.6 %
UVT_{254n}	25...96.6 %/cm	96.6 %/cm
SAC_{254}	1.5...60 1/m	1.5 1/m
COD_{eq}	2.2...90 ppm	2.2 ppm
BOD_{eq}	0.7...30 ppm	0.7 ppm
TOC_{eq}	1...35 ppm	1 ppm
DOC_{eq}	1...35 ppm	1 ppm
Turb	5...200 FAU**	5 FAU**
TSS_{eq}	5...180 ppm	5 ppm

* Turbidity measurement according to DIN EN ISO 7027

** FAU: Formazine Attenuation Unit

Technische Spezifikationen

Measurement technology	light source	Xenon flash lamp	
	detector	4 photo diodes + filter	
Measurement principle		Attenuation	
Optical path		0,3 mm, 1 mm, 2 mm, 5 mm, 10 mm, 20 mm, 50 mm	
Parameters		See Parameter List	
Measurement range		See Parameter List	
Measurement accuracy		± (5 % + 2-fold detection limit)	
Turbidity compensation		Yes	
Data Logger		~ 2 GB	
Reaction time T100		20 s	
Measurement interval		≥ 10 s	
Housing material		Stainless steel (1.4571/1.4404)	
Dimensions (L x Ø)		~ 470 x 48 mm (with 10 mm path)	~ 18.5" x 1.9" (with 10 mm path)
Weight	VA	~ 3 kg	~ 6.6 lbs
Interface	digital	Ethernet (TCP/IP) RS-485 (Modbus RTU)	
Power consumption		≤ 7 W	
Power supply		12 – 24 VDC (± 10 %)	
Required supervision		Typically ≤ 0.5 h/month	
Calibration/maintenance interval		24 months	
System compatibility		Modbus RTU	
Warranty		1 year (EU & USA: 2 years)	USA: 2 years
Max. pressure	with SubConn	30 bar	~ 435 psig
	with fixed cable	3 bar	~ 43.5 psig
	in flow unit	1 bar, 2...4 L/min	~ 14.5 psig at 0.5 to 1.0 gpm
Protection type		IP68	NEMA 6P
Sample temperature		+2...+40 °C	~ +36 °F to +104 °F
Ambient temperature		+2...+40 °C	~ +36 °F to +104 °F
Storage temperature		-20...+80 °C	~ -4 °F to +176 °F
Inflow velocity		0,1...10 m/s	~ 0.33 to 33 fps