



mikron

Liquid chromatography detectors



Official Runge distributor
biotechfluidics.com
 phone +46 300 56 91 80

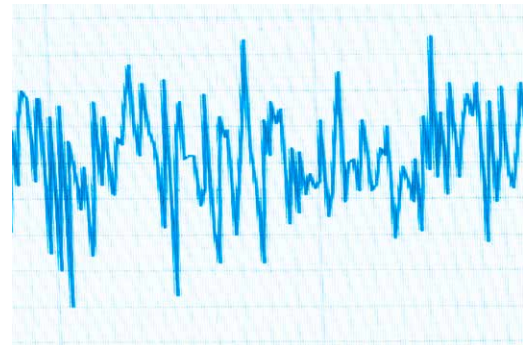
Runge mikron – small detector, big advantage.



small and dynamic

No matter where you want to measure: the mikron is right there. With a diameter of 32 mm and a length of only 90 to 165 mm, it fits perfectly into any installation, mounted on the side of your system or simply on a laboratory stand.

Measuring the dynamic course of conductivity at 100 Hz – no problem with the mikron 81. Or measure the absorption at two wavelengths simultaneously at 100 Hz – the mikron 31 does it easily.



cool

The mikron can be operated in refrigerated environments at 3 °C. With its small size, you can put it completely in the refrigerator, without any external cell with fibre optics.

And it stays cool during the measurement – the mikron 81 for conductivity anyway, the photometer mikron 31 too thanks to LED technology.

Just what you need for biochemical measurements.

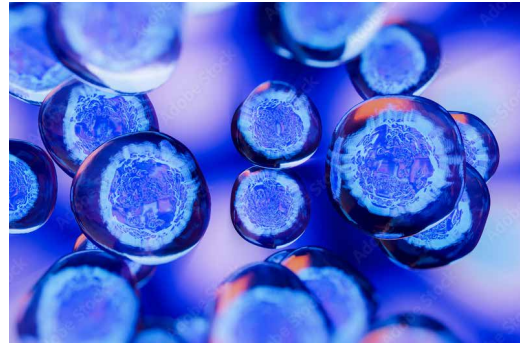


biocompatible

For your application in medical and biotechnology, all measuring cells are available in PEEK or titanium, both chemically resistant and biologically inert.

The wetted materials are available in special qualities on request (PEEK with FDA certificate, USP Class VI, prion-free, titanium as ELI).

Your entire process remains compliant with regulations.



versatile

We offer a wide range of measuring cells – three cell geometries in three different materials for photometry, two electrical cell constants for conductivity.

There are two different interfaces for all detectors in the mikron family. And for the light sources, every wavelength available as an LED.

No wish of yours remains unfulfilled, we hope.



open

The mikron 81 talks in many ways, on the hardware side via USB or via the industry standard RS-485 with a robust round plug.

In addition to drivers for all common applications (Clarity, SCPA ChromStar, PrepCon, NI LabView)* there is the open Runge protocol for your own implementation.

You can start right away.



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mikron 31 photometer






Absorption photometer with fixed, changeable wavelengths for flowing media.

Detector	LED cassette	Analytical flow cell	Preparative flow cell	Flow cell for capillary
Photometer with changeable LED light sources (1 or 2)	LED light source with fixed wavelength	Layer thickness: 10 mm Dwell volume: 10 µl	Layer thickness: 0.5/1.0/1.5/2.0 mm Dwell volume: 1.6/3.2/4.8/6.4 µl	Cell for capillary 220...350 µm OD Adaptation to sample piece available
Sample rate: 1...100 Hz Noise: typ. < 10 ⁻⁵ AU at 255 nm, τ = 1 s	Wavelengths (nm): 255, 280, 300, 310, 360, 400, 410, 415, 500, 545, 630, 730, more on request	Versions: Stainl. steel 1.4301 titanium 3.7165 PEEK	Versions: Stainl. steel 1.4301 titanium 3.7165 PEEK	Versions: Stainl. steel 1.4301
Linearity: typ. > 2,5 AU	Accuracy WL typ. ± 2 nm	Wetted materials: Fused silica, PTFE	Wetted materials: Fused silica, PTFE	
Reference channel, 2-wavelength mode	Lifetime: 5,000 hours	Connections: 10-32 UNF coned	Connections: 1/4"-28 UNF flat-bttm	Fixation for capillary
Marks of conformity: CE, UKCA	Automat. recognition, operating hours counter	Max. pressure: 100 bar (S.S., Ti) 40 bar (PEEK)	Max. pressure: 100 bar (S.S., Ti) 40 bar (PEEK)	

mikron 81 conductivity meter



Measurement of electrical conductivity in flowing media with changeable electrical cell constant.

Detector		Analyt./prep. flow cell		Analytical flow cell
				
Sample rate 1...100 Hz	Conductivity	Cell constant (el.)	Z = 10/cm	Z = 50/cm
Temp. compensation		Measuring range	2 μ S/cm...1 S/cm	10 μ S/cm...1 S/cm
Recognition of cell type		Linearity range	2 μ S/cm...100 mS/cm	10 μ S/cm...250 mS/cm
Marks: CE, UKCA		Accuracy	± 2 % or ± 1 mS/cm	± 2 % oder ± 2 mS/cm
		Precision	± 0.2 % or ± 0.1 mS/cm	± 0.2 % / ± 0.2 mS/cm
		Measuring range	0 ... 100 °C	0 ... 100 °C
Temperature		Accuracy	± 0.1 °C	± 0.1 °C
		Precision	± 1 % or ± 0.1 °C	± 1 % oder ± 0.1 °C
		Bore diameter	2.2 mm	1 mm
Fluids		Dwell volume	53 μ l	11 μ l
		Connections	1/4"-28 UNF flat-bottom	1/4"-28 UNF flat-bottom
		Maximal pressure	150 bar	150 bar
Materials		Dynamic pressure	<1 bar at 1,000 ml/min	1 bar at 1,000 ml/min
		wetted	PEEK, titanium 3.7165	PEEK, titanium 3.7165



Wissenschaftliche Gerätebau „F. F. Runge“ GmbH
(‘F. F. Runge’ Scientific Instruments)
David-Gilly-Straße 1
14469 Potsdam
Germany
Tel. +49 (0) 3 31 96 79 75 00
info@ff-runge.de
www.ff-runge.de



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