

unio GROUND WATER QUALITY

Product:**unio GROUND WATER QUALITY**

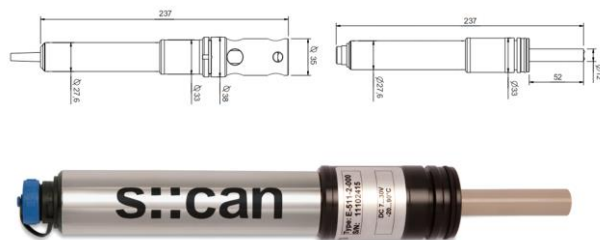
Status:

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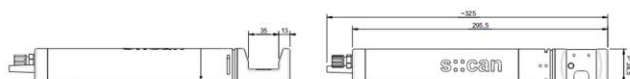
unio	unio+
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Inputs	4x analog or digital and 4x remote sensors (feature activation)	4x analog or digital and 4x remote sensors (feature activation)
Input configuration	0...20mA / 4...20mA	0...20mA / 4...20mA
	0...2V / 0...10V	0...2V / 0...10V
	PWM	PWM
	Frequency	Frequency
Measuring range / Resolution	Digital / Counter	Digital / Counter
	0...20mA / 4...20mA: 6,3µA, Bürde 96R	0...20mA / 4...20mA: 6,3µA, Bürde 96R
	0...2V: 610µV	0...2V: 610µV
	0...10V: 7.97mV	0...10V: 7.97mV
	PWM: 100Hz	PWM: 100Hz
	Frequency: 1kHz	Frequency: 1kHz
	Digital: 100ms	Digital: 100ms
Sensor supply	Counter: 1ms	Counter: 1ms
	2 x switchable 3.3V supply (max. 180mA)	2 x switchable 3.3V supply (max. 180mA)
Temperature sensor	1 x switchable and from 1 second adjustable sensor supply range 5...24V	1 x switchable and from 1 second adjustable sensor supply range 5...24V
	Input 1x PT100/1000	Input 1x PT100/1000
Internal sensors and measured values	Input voltage	Input voltage
	SOC (state of charge)	SOC (state of charge)
	Battery life in days	Battery life in days
	Mobile phone strength	Mobile phone strength
	Humidity and temperature in the device	Humidity and temperature in the device
Serial interfaces, Bus interfaces	1x RS232 (feature activation)	1x RS232 (feature activation)
	1x RS485 (feature activation)	1 x RS485 galvanically isolated (option)
		1x RS485 (feature activation)
		1x SDI 12 (option)
Outputs	1x potential-free switching contact	1x potential-free switching contact
Supply	Battery or rechargeable battery	Battery or rechargeable battery
	PV oder direkte Versorgung von 9...32VDC	Batterie oder Akku PV oder direkte Versorgung von
	PSU supply concept	PSU supply concept
Battery life	Battery life up to 5 years	Battery life up to 5 years
	Battery life up to 2 years	Battery life up to 2 years
Protection class	IP66	IP66 / IP68 (IP68: 105days@1m)
Display	RGB-LED	RGB-LED
		1,5" Full Color Display (option)
Dimensions	86 x 175 x 64mm (without antenna)	130 x 250 x 78mm (without antenna)
Data transmission	2G/M1/NB1 World	2G/M1/NB1 World
		2G/3G/4G World

condu::lyser measures conductivity, temperature and salinity


Measuring principle	4-electrodes, wetted
Resolution	1 µS/cm or 0.01 mS/cm or 0.1 PSU
Accuracy (standard solution)	0.1% of the measured value
Automatic compensation	Temperature
Instrument	
Integrated temperature sensor	-20 ... 90 °C
Connection via	con::lyte con::nect
Power supply	7 ... 30 VDC
Power consumption (typical)	0.06 W
Power consumption (max.)	0.15 W
Plug connection to s::can terminals	sys plug (IP67), RS485
Cable length	7.5 m fixed cable (-075) or plug connection (-000)
Housing material	Stainless steel 1.4435, FDA-approved PEEK, POM-C
Weight (min.)	240 g
Dimensions (Ø x L)	33 x 237 mm
Application range temperature	0 ... 70 °C
Pressure range	0 ... 20 bar
Installation / Mounting	submerged or in bypass
Process connection	quick connect
Flow velocity	0.01 m/s (min.) 3 m/s (max.)
Automatic cleaning	Medium: compressed air Permissible pressure: 2 ... 6 bar
Storage temperature	0 ... 60 °C
Conformity - EMC	EN 61326-1
Protection class (-000)	IP67
Degree of protection (-075)	IP68
Conductivity [µS/cm]	Min. 0 Max. 500000
Temperature [°C]	Min. 0 Max. 70
Salt content* [PSU]	Min. 2 Max. 42

i::scan measures an individual selection depending on the application:


Measuring principle	35 mm optical path length: Spectrometry combined 180° absorption and 90° scattered light Turbidity: according to EPA 180.1 and ISO 7027 5 mm optical path length: Absorption
Resolution	Turbidity (35 mm): 0.001 NTU/FTU Turbidity (5 mm): 0.01 NTU/FTU (0.1 for over 1000 NTU/FTU) Color: 0.01 Hazen UV254: 0.015 Abs/m TOC: 0.01 mg/l
Accuracy (standard solution)	Turbidity immersed (5 mm): 2 NTU/ FTU or +/- 5 %* Turbidity in flow-through fitting (35 mm): 0.02 NTU/FTU or +/- 2,5 %* Color: 1 Hazen or +/- 2.5 %* TOC: 0.1 mg/l or +/- 2.5 %* UV254: 0.1 Abs/m or +/- 2.5 %* (*whichever value is greater) is greater)
Automatic compensation	dual beam and 180° path
Instrument	
Pre-calibrated ex works	all parameters
Reference solution / -medium	Distilled water
Integrated data memory	512 MB
Integrated temperature sensor	-20 ... 70 °C
Temperature sensor resolution	0.06 °C
Connection via	con::lyte con::nect
Power supply	10 ... 18 VDC
Power consumption (typical)	20 mA @ 12V
Power consumption (max.)	200 mA @ 12V
Plug connection to s::can terminals	RS485, MODBUS
Cable length	7.5 m fixed cable (-075) or plug connection (-000)
Housing material	PEEK, POM-C
Weight (min.)	approx. 330 g
Dimensions (Ø x L)	35 mm path length: 38.5 x 325 mm 5 mm path length: 38.5 x 295 mm
Application range temperature	0 ... 45 °C
Pressure range	0 ... 8 bar
Installation / Mounting	submerged or in bypass
Flow velocity	3 m/s (max.)
Automatic cleaning	With Autobrush or Compressed air (only possible with cable version (-075) possible) Permissible pressure: 3 ... 6 bar
Storage temperature	-20 ... 60 °C
Conformity - EMC	EN 61326-1 EN 61326-2-3
Conformity - Safety	EN 61010-1
Protection class (-000)	IP67
Degree of protection (-075)	IP68

Oberflächenwasser

		Parameter								Artikelnummer
		Trübung [NTU/FTU]	Farbe (app) [Hazen]	Farbe (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	
i::scan_NTU/FTU	Min.	0								Y01-1-R-000 / -075
	Max.	800								
i::scan_NTU/FTU+Farbe	Min.	0	0	0						Y02-1-R-000 / -075
	Max.	800	500	500						
i::scan_NTU/FTU+UV254	Min.	0					0	0	25	Y03-2-R-000 / -075
	Max.	800					70	70	100	
i::scan_NTU/ FTU+UV254+Farbe	Min.	0	0	0			0	0	25	Y04-2-R-000 / -075
	Max.	800	500	500			70	70	100	
i::scan_NTU/FTU+TOC_ eq+UV254	Min.	0			0	0	0			Y05-3-R-000 / -075
	Max.	800			25	25	70			
i::scan_NTU/FTU+TOC_ eq+UV254+Farbe	Min.	0	0	0	0	0	0			Y06-3-R-000 / -075
	Max.	800	500	500	25	25	70			

Trinkwasser

		Parameter								Artikelnummer
		Trübung [NTU/FTU]	Farbe (app) [Hazen]	Farbe (tru) [Hazen]	TOC [mg/l]	DOC [mg/l]	UV254 [Abs/m]	UV254 f [Abs/m]	UVT10 [%]	
i::scan_NTU/FTU	Min.	0								Y01-1-D-000 / -075
	Max.	800								
i::scan_NTU/FTU+Farbe	Min.	0	0	0						Y02-1-D-000 / -075
	Max.	800	500	500						
i::scan_NTU/FTU+UV254	Min.	0					0	0	25	Y03-2-D-000 / -075
	Max.	800					70	70	100	
i::scan_NTU/ FTU+UV254+Farbe	Min.	0	0	0			0	0		Y04-2-D-000 / -075
	Max.	800	500	500			70	70		
i::scan_NTU/FTU+TOC_ eq+UV254	Min.	0			0	0	0			Y05-3-D-000 / -075
	Max.	800			25	25	70			
i::scan_NTU/FTU+TOC_ eq+UV254+Farbe	Min.	0	0	0	0	0	0			Y06-3-D-000 / -075
	Max.	800	500	500	25	25	70			

oxi::lyser™ measures oxygen & temperature



Measuring principle	Fluorescence
Resolution	0.01 mg/l O2
Accuracy (standard solution)	O2: +/- 0.02 mg/l or +/- 1 %* (*depending on which value is greater is greater)
Response time (T90)	60 ... 0 sec.
Reference solution / -medium	Saturated sodium sulphite solution
Integrated temperature sensor	0 ... 50 °C
Temperature sensor resolution	0,2 °C
Connection via	con::lyte con::nect
Power supply	6 ... 16 VDC
Power consumption (max.)	0.32 W
Plug connection to s::can terminals	sys plug (IP67), RS485
Cable length	10 m
Housing material	CPVC, stainless steel, epoxy
Weight (min.)	540 g
Dimensions (Ø x L)	50.5 mm x 132 mm
Application range temperature	0 ... 60 °C
Pressure range	0 ... 7 bar
Installation / Mounting	submerged or in bypass
Process connection	R 1 1/2"
pH range	2 ... 10
Protection class	IP68
Automatic cleaning	Medium: compressed air Permissible pressure: 2 ... 4.5 bar
Storage temperature	0 ... 60 °C
Conformity - EMC	EN 50081-2, EN55011
Conformity - Safety	EN 61000-4, EN61010-1
O2[mg/l]	Min. 0 Max. 25

Temperature [°C]	Min. 0 Max. 50
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