

**On-line analysis device
type Colormetry CMU 324 CLE**

determination of free chlorine

function	on-line alarm device for automatic determination of free chlorine in water		
measurement principle	colorimetry: limit value monitoring		
methode	colour titration with extinction monitoring		
mixing chamber principle	flow-injection with self-cleaning effect		
monitoring range	0 ... 2	mg/l	Cl ₂ ⁻
corresponding units	0 ... 2	ppm	Cl ₂ ⁻
display	graphic		
power supply	DC 24V according to EN60950-1		
power apply option	<ul style="list-style-type: none"> - on site - via wall power supply / order no. 00730455 - via Konverterbox (optional equipment) / order no. 00730454 		
power consumption	15 W (in operation)		
feed water pressure	0,5 ... 5,0 bar integrated constant flow valve		
limit value monitoring	thresholds adjustable in device:		
upper limit	⇒	0,05 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1,0 1,2 1,4 1,6 1,8 2,0 mg/L Cl ₂ ⁻	
lower limit	⇒	- . - 0,05 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1,0 1,2 1,4 1,6 1,8 mg/L Cl ₂ ⁻	
reagent residual hardness	<p>only one indicator for all limits provided in a clean and easy to handle service cartridge for low maintenance operation</p> <p>⇒ cartridge replacement is also wearing parts exchange</p>		
output function	<p>3 x open collectors for max. load: DC 24V 70mA</p> <p>⇒ limit alarm and device errors (automatic self-check-mode)</p> <p>⇒ lack of reagent alert</p> <p>⇒ water passing/monitoring active</p> <p>1 x serial interface RS232</p>		
input function	<p>1 x potential free contact</p> <p>⇒ e.g. remote signal input for external analysis start</p>		
scope of delivery	<p>Colormetry CMU-324CLE on line monitor free chlorine/ pipe fitting for feed water tube diameter φ1/4"(φ6mm) / app. 5 m feed water tube φ1/4"(φ6mm) / pipe fitting for drain water tube diameter φ 5/16"(φ8mm) / app. 3 m drain water tube φ 5/16"(φ8mm) / fine filter casing assembly with fine filter cartridge / temperature probe with mounting fittings / ball valve and plumbing parts for hydraulic connection / mounting bracket and other miscellaneous parts / user`s manuals</p>		
dimension H x W x D	device in operation	app. 550 x 125 x 100	[mm]
	transport packing	app. 460 x 290 x 155	[mm]

wight	device	app. 2,5 kg
	transport wight	app. 3,5 kg
customs commodity code	90278017	
type	Colormetry CMU 324 CLE	order no. 00730456
consumables	CLE service-cartridge with reagent	order no. 00730453
	fine filter cartridge	order.no. 00730457

**CLE service-cartridge with reagent
for Colormetry CMU 324 CLE**

reagent function	determination of free chlorine in water		
measuring range	0 ... 2 mg/l		
	limit values adjustable in device		
	- . - 0,05 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1,0 1,2 1,4 1,6 1,8 2,0 mg/L Cl ₂ ⁻		
expiry	genuine packed:	app. 2 years from manufacturing	
	in operation:	app. 4-6 month	
storage	cool, dry and dark / avoid direct sunlight		
delivery condition	vacuum packing		
service function	cartridge replacement is also wearing parts exchange		
dimension H x W x D	cartridge	app. 240 x 90 x 45	[mm]
	transport packing	app. 260 x 100 x 50	[mm]
wight	cartridge	app. 0,5 kg	
	transport wight	app. 0,6 kg	
customs commodity code	38220000		
type	service cartridge CMU 324 HE	order no. 00730453	

OPTION

**KONVERTER BOX for Colormetry CMU 324 series
24V DC-power supply unit and interface adapter**

primary voltage	180...230V
secondary voltage	24 VDC 20VA
outputs	3 x potential free relay 1 x analog 0/4...20mA
inputs	1 x digital potential free
scope of supply	1 pc. power supply unit 180-230VAC/24VDC in enclosure IP65 6 pc. PG screws [2xM16, 4xM12] 1 pc. communication plug-in card [3 x pot.free relay OUT, 1x pot.free IN, 1x 0/4-20mA OUT] 1 pc. RS232 counter plug app.3m confectioned connecting cable with plugs, 14 strands, 1 shield 1 pc. operation manual
protection class	if closed enclosure IP 65
dimension H x W x D	Konverterbox in operation app. 230 x 120 x 80 [mm] transport packing app. 320 x 250 x 160 [mm]
wight	Konverterbox app. 1,0 kg transport wight app. 1,5 kg
customs commodity code	90278017
type	Konverterbox for Colormetry CMU 324 order no. 00730454