



# Chlorine Photometer PMCL



Fig. 1: Light source of the chlorine photometer

The chlorine photometer PMCL is a 2-wavelength UV/VIS photometer for the analysis of chlorine in fume gases. The influence of surrounding light on the measuring result is minimized by a modulation technique. The measuring procedure with two wavelengths compensates for aging of the lamp and the influence of deposits and particles in the measuring gas resulting in precise measuring results. Additionally, changes of the lamp spectrum with lifetime are compensated numerically. The photometer can be calibrated with respect to a reference sample using the build-in calibration cuvette.

Operation of the photometer is menu-controlled with a 4 line display. Measuring data are shown on the display. They are also steadily transferred to an analog interface. An adjustable relay contact is available for system controllers. The UV photometer requires low maintenance. The optical windows should be cleaned according to the amount of dirt.

## Applications

- Analysis of chlorine in fume gases
- Analysis of other gases with appropriate wavelength

## Technical Data

Measuring range:	0 - 100% transmission
Resolution:	0.1%
Measuring $\lambda$ :	330 nm
Reference $\lambda$ :	460 nm
Measuring time:	20 s
Process window:	Quartz glass, N <sub>2</sub> flush
Optical path length:	e.g. 500 mm
Housing protection:	IP65

## Light source

Lamp:	Xe flash lamp
Lamp lifetime:	10 <sup>9</sup> – 10 <sup>10</sup> flashes
Dimensions:	Ø 150 mm, h 410 mm
Flange:	DN100

## Detector / Display

Flange:	DN100
Mains:	230 VAC, 50 Hz
Operation temp.:	10 to 40 °C
Humidity:	< 80%
	Non-condensing
Signal current:	4 to 20 mA
Relay contact:	1x 250V 1A

## Part number

Chlorine photometer PMCL	831002
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