



## GC-PID

Portable-Process-Gaschromatograph  
Typ: meta 3 HE III / PID



CONSTRUCTION	SAMPLE INPUT	MEASURING PARAMETER
19 inch casing either to be integrated or to be installed on tables 3 HE	<b>air sample input:</b> - automatic - manual (optional injector)	e.g.: volatile, aliphatic and aromatic hydrocarbons
<b>detector:</b> PID Photoionisation detector	<b>signal-processing :</b> - PC with data-software	Benzene Toluene Xylene Vinylchloride Trichlorethene Tetrachlorethene
<b>column:</b> Ultimetal column, 25 meters or Packed column	<b>Signal-output:</b> - RS 232, USB or LAN	
<b>carrier gas :</b> air or N <sub>2</sub>		
<b>Oven:</b> Isothermic temperature control Range: 40°C, 60°C, 120°C		

## Description of the analyzer

The analysis-system GC - type 3 HE - PID - enables manual and automatic rehearse-tasks and Analyses. The use-areas are online Emissions / Immissions / ground-air / exhaust air / process and Water-analyses. Tax-functions are possible through connections of further appliance like for example gas multiplexer.

## Detector - PID - (Photoionisation detector)

The PID points out a high selectivity for aromatic and aliphatic hydrocarbons on, this follows after the typ of lamp and the ionization-potential (I.P.) of the materials to be analyzed.

<b>Carrier gas :</b>	synthetic air or N <sub>2</sub>
<b>Column temperature:</b>	isothermic 40, 60,120 °C
<b>PID - Lamp:</b>	10,6 e.V. Or 11,8 e.V.
<b>Detector temperature:</b>	150 °C

## PID - Function

The PID produces monochromatic light in the UV - area. All substances with a smaller Ionization-potential as the respective energy level of this UV - radiation is ionized. In an electric field these electrons are measured and are registered.

## Injector (otional)

- Split/Splitles rehearse-task
- manual rehearse-task by means of Septum in the Injektor
- automatic rehearse-task by means of in the time of-controlled rehearse-bow (Sample Loop)
- Injector temperature: 120 °C

## Oven

<b>Dimensions:</b>	Diameters 30 mm; Length 250 mm
<b>Column:</b>	Stole or quartz-capillary
<b>Standard:</b>	Steel-capillary type meta OV 101
<b>Temperature:</b>	40, 60, 120 °C isotherm, Optional temperature program

## Transaction of analyses

The system starts the measurement cyclically. All steps take place automatically from the rehearse-task up to the evaluation. A singles-measurement can be enforced, as well a Re analysis. The analysis-system has a minimal cycle-time of 3 min (benzene), for the singles-chanel, for example for 4 entrances, 4 -... .Inputs, 120 measurements per day are consequently possible for each entrance.

### Process control and data-storage

That appraise software stores all measurements and optional external signals on the hard disk of the attached PC. Leaves itself report from it daily, weekly or monthly (for example MS-EXCEL) with min /max. limits etc produces.