

Photoionisation-Detector (PID)

Detection of hydrocarbons in the ppb range

Application fields:

- Monitoring of exposure level of pollution at the place of work (MAK values):
z.B.: benzene, arsine, phosphine, toluene, xylene
- Environmental protection, especially emission monitoring
- Clean room monitoring
- Monitoring of inner rooms air
- Air monitoring in case of accidents / tracking
- Monitoring of laboratory flues and glove boxes
- Monitoring of breakthrough of respiratory filters

Features:

- high sensitivity, minimised cross sensitivity
- fast response
- low power consumption
- minimal effort for service and maintenance
- compact and rugged design
- portable as well as stationary devices available
- serial computer interface
- programmable measuring sequences



Technical Specifications: PID – Photo-Ionisation Detector

Detector	Photo-Ionisation Detector (PID) with 11,7 eV UV-lamp												
Detection limit	0,1 ppB for benzene, arsine, phosphine, toluene, xylene a.o.												
Measuring ranges	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Measuring range</u></th> <th style="text-align: left;"><u>Resolution</u></th> <th style="text-align: left;"><u>Response time</u></th> </tr> </thead> <tbody> <tr> <td>0,1 ... 100 ppb</td> <td>0,1 ppb</td> <td>3 sec</td> </tr> <tr> <td>1,0 ... 1000 ppb</td> <td>1,0 ppb</td> <td>3 sec</td> </tr> <tr> <td>0,1 ... 1000 ppb</td> <td>0,1 ppb</td> <td>3 sec</td> </tr> </tbody> </table>	<u>Measuring range</u>	<u>Resolution</u>	<u>Response time</u>	0,1 ... 100 ppb	0,1 ppb	3 sec	1,0 ... 1000 ppb	1,0 ppb	3 sec	0,1 ... 1000 ppb	0,1 ppb	3 sec
<u>Measuring range</u>	<u>Resolution</u>	<u>Response time</u>											
0,1 ... 100 ppb	0,1 ppb	3 sec											
1,0 ... 1000 ppb	1,0 ppb	3 sec											
0,1 ... 1000 ppb	0,1 ppb	3 sec											
Power consumption	non-heated detector up to 6 W heated detector up to 30 W at 12 V												
Battery lifetime	10 h – 12 h with ICR 3360												
Display	LCD, alphanumerisch, 4 x 40 Zeichen												
Data transmission	Serial, RS 232												
Operating temperatur	from - 10°C to + 80 °C, depending on detector type												
Column temperatur	35 °C, 60 °C and 80 °C (only for GC-PID model) selectable												
Dimensions (L x W x H)	260 mm x 260 mm x 160 mm Standard-device 265 mm x 220 mm x 140 mm portable. Mini- PID												
Weight	6 kg (Standard-device) 3,8 kg (portable Mini-PID)												

Address: STEP Sensortechnik und
Elektronik Pockau GmbH
Siedlungsstrasse 5-7
D-09509 Pockau

Phone: 037367 / 9791 and 9792
Fax: 037367 / 77730
E-Mail: info@step-sensor.de
URL: www.step-sensor.de