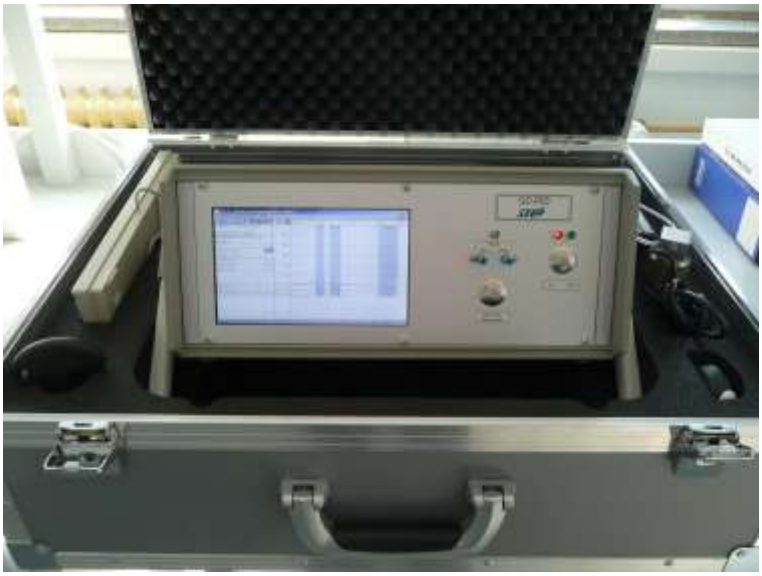
STEP Photo Ionisation Detector PID

Photo-Ionisation-Detector with a Gas-Chromatographic column



Performance:

- **Multi-gas trace detector for detection and identification of volatile organic compounds (VOCs) in the ppb- and ppm range, like BTX-respectively BTEX aromatic compounds (able to detect 5 nano gram Benzene per litre)**
- **Ionisation: UV-lamp with ionisation energy ≤ 11,7 eV (if standard UV-lamp is 10,6 eV), Lifetime UV lamp 5000 hours of operation**
- **Photo Ionisation Detector (PID) coupled with a gas-chromatographic column (GC-column) for pre-separation to a GC-PID**
- **Usage as a stationary but also as a mobile unit for high-sensitive detection and identification**
- **Operating costs are low since no carrier gas is required**
- **Integrated micro-computer for graphical control and spectrum analysis while stand-alone operation: „Pico-ITX“, Intel Atom 1,6 GHz, 1GB RAM, 4xUSB**
- **Hard disk WD1600BUDT, 160GB, suitable for ‘24x7 always on’ operation**
- **Display G070VW01, 7’’, resolution 800x480, LVDS**
- **Connecting an extern PC/Laptop via USB interface is possible for IMS control and data analysis**
- **Keyboard and mouse for stand-alone operation are included**
- **Dimensions: 19“-plug-in unit, 3 HE**
- **Weight: approx. 7 kg (mobile use up to 5-6 hours)**
- **Measuring time: Approx. 5 minutes (depending on GC-column)**
- **PC Control and analysis Software *‚PID’* Version V1.5. English**

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Technical Specifications:

Detector:	Photo-Ionisation-Detector with a Gas-Chromatographic column (GC-PID)
Ionisation:	Krypton UV-lamp (E = 10.6 eV), optionally other lamps possible
Measurable compounds (Excerpts of VOCs):	Volatile organic compounds (VOCs) like BTX-respectively BTEX aromatic compounds and other toxic gases ionisable by UV-lamp. For example
	- Benzene - Toluene - Ethyl benzene - Xylene - Ammonia - Styrene - Propene - Vinyl chloride - Butyl acetate - Ethyl acetate
Detection Limit:	ppb- and ppm range
Dimensions:	19"-plug-in-unit, 3 HE
Weight (with battery):	approx. 7 kg
Operating temperature:	0 .. 50°C (32 .. 122°F)
Warm-up time:	15 minutes
Measuring time:	Approx. 5 minutes (depending on GC-column)
Power supply:	230 VAC, optional: 110 VAC respectively Li-Ion rechargeable battery for mobile use

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