Technical Data Sheet

VOC Pro – PID Gas Detector by RKI Instruments

Brand / manufacturer	RKI Instruments
Product codes	10.6 eV lamp - high PPM range PID / 0 to 100 ppm — SKU: 66-6193-10 10.6 eV lamp - high PPM range PID / 0 to 200 ppm — SKU: 66-6193-20 10.6 eV lamp - high PPM range PID / 0 to 500 ppm — SKU: 66-6193-50 10.6 eV lamp - high PPM range PID / 0 to 1000 ppm — SKU: 66-6193-1K 10.6 eV lamp - high PPM range PID / 0 to 2000 ppm — SKU: 66-6193-2K 10.6 eV Lamp - Low PPM Range PID / 0 to 10 ppm — SKU: 66-6192-01 10.6 eV Lamp - Low PPM Range PID / 0 to 20 ppm — SKU: 66-6192-02 10.6 eV Lamp - Low PPM Range PID / 0 to 50 ppm — SKU: 66-6192-05 10.0 eV Lamp - PID / 0 to 10 ppm — SKU: 66-6195-01 10.0 eV Lamp - PID / 0 to 20 ppm — SKU: 66-6195-02 10.0 eV Lamp - PID / 0 to 50 ppm — SKU: 66-6195-05 10.0 eV Lamp - PID / 0 to 100 ppm — SKU: 66-6195-10 11.7 eV Lamp - PID / 0 to 20 ppm — SKU: 66-6194-02 11.7 eV Lamp - PID / 0 to 50 ppm — SKU: 66-6194-05 11.7 eV Lamp - PID / 0 to 100 ppm — SKU: 66-6194-10 11.7 eV Lamp - PID / 0 to 500 ppm — SKU: 66-6194-50 11.7 eV Lamp - PID / 0 to 1000 ppm — SKU: 66-6194-99

Product description

RKI Instruments VOC Pro PID gas detector: fixed 3-wire explosion-proof transmitter using a PID sensor to detect a variety of gases.

Lamp options: 10.6 eV lamp - high PPM range PID, 10.6 eV Lamp - Low PPM Range PID, 10.0 eV Lamp - PID, 11.7 eV Lamp - PID. Ranges: 0 to 100 ppm, 0 to 200 ppm, 0 to 500 ppm, 0 to 1000 ppm, 0 to 2000 ppm, 0 to 10 ppm, 0 to 20 ppm, 0 to 50 ppm.

Key benefits

- PID lamp options: 10.0 eV, 11.7 eV, 10.6 eV ppb, 10.6 eV ppm
- Wired power (3-wire), 12–35 VDC
- Graphical LCD with LED backlight; 3 push-buttons with magnetic non-intrusive switches for field calibration
- 2 individually configurable alarms; amber and red LED indicators; 2 optional programmable dry-contact relays
- Outputs: 4–20 mA (3-wire) analog and RS-485 Modbus
- Operating temperature −40 °C to +54 °C

Specifications (manufacturer)

Sensor Type	PID	
Operating Voltage	Wired power (3-Wire) 12 to 35 VDC	
Power Draw	2 Watts maximum	

Protection	Power electromagnetic interference (EMI) filter 4-20 mA surge suppression RS-485 surge suppression	
Display Screen	102×64 Resolution graphical LCD screen transflective (sunlight readable) with white LED backlight	
Interface	3 Push-buttons (MENU, ADD and SUB) 3 Magnetic non-intrusive switches for calibration	
Customizable Settings	2 Individual-configurable alarm LED/relay set-points	
Temperature Range	-40°C to +54°C (-40°F to +130°F)	
Output (digital)	RS-485 modbus	
Wired (Analog) Output	4-20 mA (3-Wire) Fault terminal Optional 2 dry-contact relays with replaceable 4 amp fuses	
Remote Sensor Kit (Optional Additional Feature)	Remote sensor kit with enclosure (5 pin) • PID sensor max. length: 35 feet	
Product Dimensions	5.5 in, L x 6 in. W x 7 in. H (8 in. W x 17 in. H Max. dimensions with attachments)	
Total Weight	6 lbs.	
Hazardous Location Approvals	Main Enclosure	Certified explosion / flame proof CQPSUS Class I, Division 1 & 2, Groups B, C & D, Nema 3, 4, 4X, 7 (B, C, D) 9 (E, F, G) Temp.= -20°C to +60°C
Sensor Housing	Certified explosion / flame proof CQPSUS Class I, Division 1 & 2, Groups B, C & D Temp.= -40°C to +60°C	
Controllers	Compatible with all RKI Beacon controllers, as well as most DCS / PLC systems: Beacon 110, Beacon 200, Beacon 410A and Beacon 800, MC-6400	
Warranty	1-Year warranty for electronics, and PID sensor (Two months for 11.7 eV lamp)	

Information source

Russmill Safety product listing — https://www.russmillsafety.com/products/voc-pro-pid-gas-detector-by-rki-instruments (listing notes product information supplied by the manufacturer, RKI Instruments)

Supplier / distributor contact

Supplier / distributor	Russmill Safety
Store	A1 Queen’s Highway, Suite 2–3, Freeport, Grand Bahama F42190, The Bahamas
USA warehouse (fulfilment)	1526 NW 23rd Avenue, Fort Lauderdale, FL 33311
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