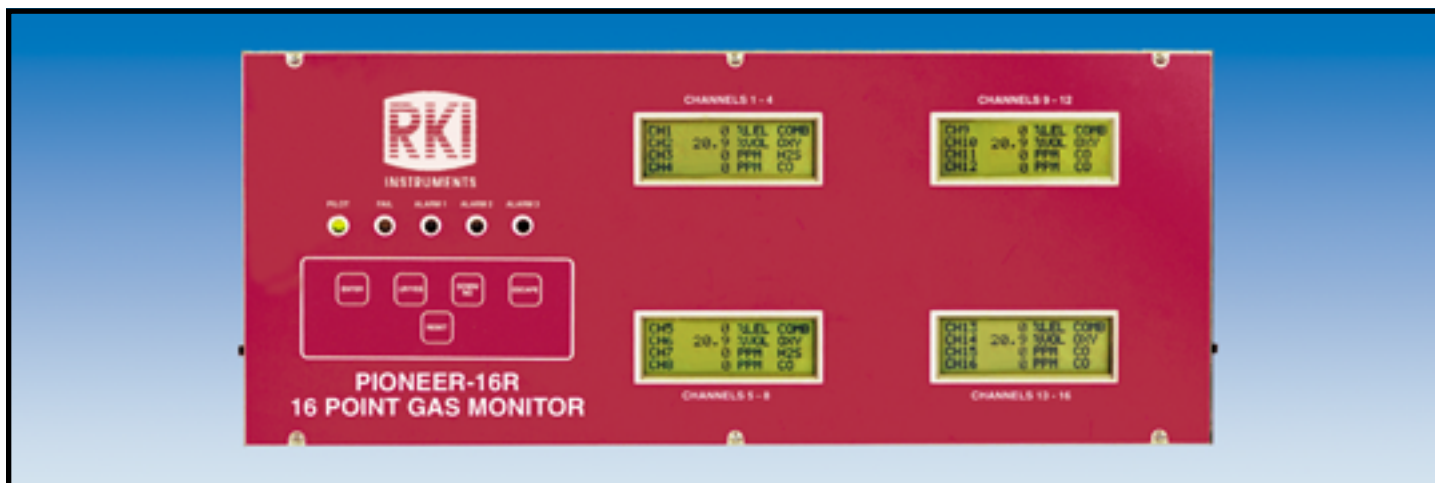




# 1 TO 16 CHANNEL RACK CONTROLLER

Gas Detection For Life

Pioneer™ 16R Model



## Features

- Simultaneous readout of 16 channels
- 3 alarm levels per channel
- Zero correction and stabilizing software eliminates sensor drift
- Discrete and common programmable relays
- 4-20 mA outputs
- Receives a wide variety of sensors
- Accepts any 4-20 mA transmitter input powered from 24 VDC
- Input voltages: 115 / 220 VAC or 12 VDC
- Form C, 8 Amp rated relays
- Standard 19" rack mount

## Industry Applications

- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone, & electric utilities
- Parking garages
- Manufacturing facilities
- Steel
- Automotive
- HVAC

The Pioneer™ 16R is a 19" rack mounted version of our popular Pioneer™ series of gas monitors.

This continuous monitoring controller is capable of handling up to 16 separate sensor inputs to detect gas levels from 1 to 16 remote locations. The 4 display screens on the front panel simultaneously displays the gas level for all active channels.

The Pioneer 16R includes three programmable alarm levels per channel, as well as audible and visual alarms which warn you of hazardous gas conditions. Versatile standardized plug-in cards allow a wide variety of inputs and outputs.

RKI offers the industry's widest selection of standard and toxic gas detection sensors, which can be utilized with the Pioneer™ 16R, providing gas monitoring protection for almost any application.

RKI Instruments, Inc. 33248 Central Ave, Union City CA 945874 • Phone (510) 441-5656 • (800) 754-5165 • Fax (510) 441-5650

World Leader In Gas Detection & Sensor Technology  
[www.rkiinstruments.com](http://www.rkiinstruments.com)

# Pioneer™ 16R Model

## Physical

<b>Dimensions</b>	Height:	6.9"	175 mm
	Width	19.0"	483 mm
	Depth	12.0"	305 mm
<b>Enclosure</b>	Standard 19" rack mount.		
<b>Wiring Termination</b>	Screw type terminal block 12 gauge max.		

## Environmental

<b>Operating Temp</b>	32°F to 122°F (0°C to 50°C)
<b>Storage Temp</b>	-4°F to 158°F (-20°C to 70°C)
<b>Relative Humidity</b>	0 - 95% RH non-condensing

## Inputs

<b>Direct Wired Sensors</b>	LEL / PPM Hydrocarbon, Oxygen  Remote amp not required for less than 500 feet.
<b>4-20 mA</b>	Accepts any 4-20 mA transmitter (24 VDC, 2 or 3 wire, 250 mA max standard). A wide variety of RKI/Riken sensors are available with 4-20 mA signals (see List Of Detectable Gases).  Wiring distances up to 5,000 feet.
<b>Zero Correction</b>	Zero correction and stabilizing software effectively eliminates all reasonable sensor drift.
<b>Sampling Methods</b>	Diffusion and sample draw heads available.

## Outputs

<b>Relays</b>	3 relays per channel - (Alarm 1, Alarm 2, Alarm 3 or Fail) 4 common relays - (Alarm 1, Alarm 2, Alarm 3, Fail) Single pole, double throw (SPDT) isolated contacts Rated - 250 VAC to 8A Individual Relay Settings: increasing or decreasing Global Relay Settings: latching or self reset normally energized or normally de-energized time delay for alarm on and alarm off.
<b>4-20 mA</b>	Separate current or voltage outputs for each of the 16 channels; non-isolated, 4-20 mA (into 500 ohms impedance max).
<b>0 - 1 VDC</b>	Optional 0 to 1 VDC (into 200 ohms impedance min).
<b>24 VDC</b>	24 VDC output provided to operate sample drawing adapters.
<b>Display</b>	4 alphanumeric displays with backlighting. 20 characters per line, 4 lines each (16 lines total).
<b>Audible</b>	Internal mounted buzzer, 94 db. Coded output Pulsing = Gas Alarm Steady = Fail
<b>Visual</b>	5 color coded LED's: Alarm 1, Alarm 2, Alarm 3, Pilot, and Fail.
<b>Power</b>	115 VAC or 12 VDC Optional - 230 VAC Battery Backup option available
<b>Controls</b>	5 front mounted push buttons for setup and programming.
<b>Warranty</b>	One year materials and workmanship.

Specifications subject to change without notice.

Made in the USA

## RKI Instruments, Inc.



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### Authorized Distributor: