POINTWATCH PIR9400

Product Data Sheet

PIR9400A3A1AW

Infrared hydrocarbon gas detector

RANGE	OUTPUT	SUPPLY	THREAD
0 to 100% LFL	**4 to 20 mA**	**18 to 30 V DC**	**3/4 inch NPT**

Det-Tronics PIR9400A3A1AW is a PointWatch infrared hydrocarbon gas detector with an aluminum enclosure, 3/4 inch NPT connection and aluminum weather baffle. The specified option includes a factory-fitted hydrophobic filter and 22-inch lead wires. It measures methane over 0 to 100% LFL and provides a corresponding 4 to 20 mA output.

01 TECHNICAL DATA

Enclosure material	Aluminum
Connection thread	3/4 inch NPT
Weather-baffle material	Aluminum
Hydrophobic filter option	Factory fitted
Lead-wire length option	22 inch
Nominal supply	24 V DC
Operating supply range	18 to 30 V DC
Detection range	0 to 100% LFL
Factory gas setting	Methane
Measurement output	4 to 20 mA; non-isolated current source

02 ADDITIONAL PRODUCT DATA

Over-range signal	23.2 mA
Maximum loop resistance	580 ohm at 24 V DC
Nominal consumption at 24 V	4.6 W; 5.5 W maximum
Operating temperature	-40 to +75 C
Ingress protection	IP66

03 PRODUCT FUNCTION

The detector operates from 18 to 30 V DC, nominally 24 V DC, and uses a non-isolated current-source output. Over-range is signaled at 23.2 mA, while lower current levels indicate calibration or fault conditions. Gas selection, calibration and hazardous-area suitability must match the actual detector label and the installed detection arrangement.

04 SYSTEM COMPATIBILITY

Maintain at least 18 V DC at the detector under operating load, including wiring drop and ripple. Connect the red supply, black common, white current output, yellow calibration input and green chassis-ground lead to their designated circuits. The current output is non-isolated and allows up to 580 ohm loop resistance at 24 V DC.

05 REFERENCE

Det-Tronics PointWatch PIR9400 Instructions 95-8440 revision 11.4, February 2022; specifications, installation and model matrix

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