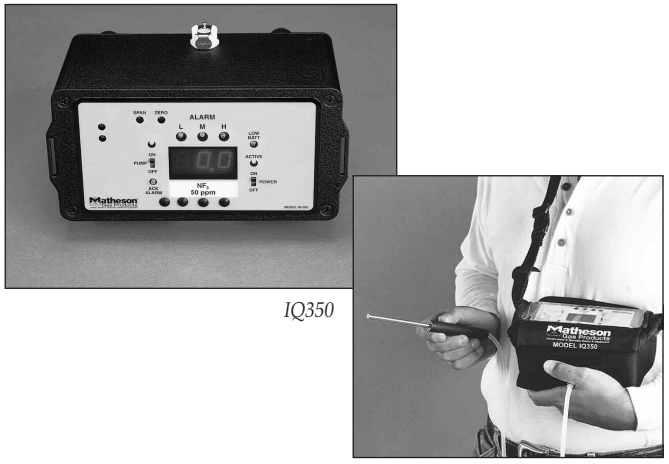
Models IQ250, IQ350

Personal Monitors

IQ250



IQ350

If you don't see a personal monitor elsewhere in our Gas Detection & Monitor Section, we can customize one for you here.

Description

The Matheson Models IQ250 and IQ350 are portable single sensor gas detection instruments. By selecting one of the more than 140 gas and vapor sensors that are available, you can customize your detector to meet your personal monitoring requirements.

The IQ250 is an extremely compact and lightweight unit, utilizing diffusion sampling to monitor the air. The sensor is attached via a coiled cable providing a reach of 24 inches. The IQ350 is equipped with an internal sampling pump and wand assembly, resulting in a slightly larger device.

Both units feature a bright LED digital concentration display and three user-adjustable alarm levels (low, mid and high). An alarm acknowledgement button and low battery alarm are additional features.

The IQ250 and IQ350 are powered by alkaline batteries (although NiCads may be substituted), and come in a protective carrying case with detachable shoulder strap.

Specifications

Detection Principle:	Solid-state
Sampling Method:	IQ250: Diffusion IQ350: Built-in sampling pump
Power:	IQ250: 4 AA alkaline batteries IQ350: 4 C alkaline batteries
Operating Time:	IQ250: 14 hours (8 hrs NiCad) IQ350: 20 hours (12 hrs NiCad)
Temperature:	4° F to 122° F (-20° C to 50° C)
Humidity:	0-99% RH, non-condensing
Display:	3 digit LED
Alarms:	3 user-adjustable setpoints (low, mid, high) with LED's and buzzer
Low Battery Alarm:	LED and continuous buzzer
Fault Alarm:	Buzzer and active LED extinguishes
Indicators:	Active (power) LED Low, mid, high alarm LED's Low battery LED Pump LED (IQ350 only)
Dimensions:	IQ250: 6.25"L x 3"W x 2.2"H (159mm x 76mm x 56mm) IQ350: 7.13"L x 3.4"W x 4."H (181mm x 86mm x 102mm)
Weight (incl. batteries):	IQ250: 22 oz. (625g) IQ350: 40 oz. (1135g)
Warranty:	1 year

Ordering Information

Model Number	Description
IQ250-01	Portable Single-Gas Detector with Diffusion Based Sensor, Alkaline Batteries and Carrying Case with Detachable Shoulder Strap. LEL Range Sensor. Specify Gas from Table.
IQ250-02	Same as IQ250-01 except with ppm Range Sensor. Specify Gas and Range from Table.
IQ350-01	Portable Single-Gas Detector with Integral Pump and Sampling Wand, Alkaline Batteries and Carrying Case with Detachable Shoulder Strap. LEL Range Sensor. Specify Gas from Table.
IQ350-02	Same as IQ350-01 except with ppm Range Sensor. Specify Gas and Range from Table.
IQ250-04	Optional size AA NiCad Batteries for IQ250
IQ250-05	Optional (UL App) Battery Charger for IQ250
IQ350-04	Optional Size C NiCad Batteries for IQ350
IQ350-05	Optional (UL App) Battery Charger for IQ350

Listing of Solid State Sensor Gases and Ranges

Available for Models IQ250, IQ350, IQ1000

Gas or Vapor	Full Scale Ranges
Acetic Acid	100, 200 ppm
Acetone	100, 200, 500, 1000, 5000 ppm, % LEL
Acetonitrile	100 ppm
Acetylene	50 ppm, % LEL, 3% Vol
Acrolein Acrylaldehyde	50 ppm
Acrylic Acid	100 ppm
Acrylonitrile	50, 60, 80, 100, 200, 500 ppm and % LEL
Allyl Alcohol	% LEL
Allyl Chloride	200 ppm
Ammonia	50, 75, 100, 200, 500, 1000, 2000, 5000 ppm, 1%, 2%, 10% by Volume, 10%, 25%, 100% LEL
Anisole	100 ppm
Arsenic Pentafluoride	5 ppm
Arsine	1, 10 ppm
Benzene	50, 75, 100 ,1000 ppm, 100% LEL
Biphenyl	100% LEL
Boron Trichloride	500 ppm
Boron Trifluoride	500 ppm
Bromine	20 ppm
Butadiene	50,100, 3000 ppm, % LEL
Butane	400, 1000 ppm, 100% LEL
Butanol	1000 ppm, % LEL
Butene	100% LEL
Butyl Acetate	100 ppm, % LEL
Carbon Disulfide	50, 60, 100 ppm, 5% Vol
Carbon Monoxide	50,100, 200, 500, 1000, 3000, 5000 ppm, 3%, 5% by Vol, % LEL
Carbon Tetrachloride	50, 100, 1000 ppm
Cellosolve Acetate	100 ppm
Chlorine	10, 20, 50, 100, 200 ppm
Chlorine Dioxide	10, 20 ppm
Chlorobutadiene	100% LEL
Chloroethanol	200 ppm
Chloroform	50, 100, 200 ppm
Chlorotrifluoroethylene	100% LEL
Cumene	100% LEL
Cyanogen Chloride	20 ppm
Cyclohexane	100 ppm, % LEL
Cyclopentane	50 ppm
Deuterium	50%, 100% LEL
Diborane	10,50 ppm
Dibromoethane	50 ppm
Dibutylamine	100% LEL
Dichlorobutene	1% by Volume
Dichloroethane (EDC)	50,100 ppm, % LEL
Dichlorofluoroethane	100, 1000 ppm
Dichloropentadiene	50 ppm
Dichlorosilane	50, 100, 200, 500 ppm
Diesel Fuel	50 ppm, % LEL
Diethyl Benzene	100% LEL
Diethyl Sulfide	10 ppm
Difluorochloroethane	100% LEL
Difluoroethane (152A)	100% LEL
Dimethyl Ether	100% LEL
Dimethylamine (DMA)	30, 50 ppm
Disilane	50 ppm
Epichlorohydrin	50, 100, 500, 1000 ppm
Ethane	1000 ppm

Gas or Vapor	Full Scale Ranges
Ethanol	200, 1000, 2000 ppm, 100% LEL
Ethyl Acetate	200, 1000 ppm, % LEL
Ethyl Benzene	200ppm, % LEL
Ethyl Chloride	100 ppm, % LEL
Ethyl Chlorocarbonate	1% by Volume
Ethyl Ether	100, 1000 ppm, % LEL
Ethylene	100, 1000, ppm, % LEL
Ethylene Oxide	5, 10, 20, 30, 50, 75, 100, 200, 300, 1000, 1500, 2000, 3000 ppm, % LEL
Fluorine	20,100 ppm
Formaldehyde	15, 50, 100, 500, 1000 ppm
Freon 11	1000,2000, 5000 ppm
Freon 12	1000, 2000, 3000 ppm
Freon 22	100,200, 500, 1000, 2000 ppm
Freon 113 (TF)	100, 200, 500, 1000, 2000 ppm, 1% by Vol
Freon 114	1000, 2000, 20000 ppm
Freon 1113	1000 ppm
Fuel Oil (Kerosene)	100% LEL
Gasoline	100, 1000, 2000, 20000 ppm, % LEL
Germane	10, 50 ppm
Heptane	1000 ppm, % LEL
Hexane	50,100, 200, 2000, 2500, 3000 ppm, % LEL
Hexene	100% LEL
Hydrazine	5,10, 20, 100, 1000 ppm, 1% by Volume
Hydrogen	50,100, 200, 500, 1000, 2000, 5000 ppm, 3%, 5% by Volume, 2% to 100% LEL
Hydrogen Bromide	50 ppm
Hydrogen Chloride	50,100, 200, 400, 500, 1000 ppm
Hydrogen Cyanide	20, 30, 50, 100, 200,1000, 10000 ppm
Hydrogen Fluoride	20, 50, 100, 200 ppm
Hydrogen Sulfide	5, 10, 20, 30, 50,100, 300, 1000 ppm, % LEL
Isobutane	1000, 3000 ppm, % LEL
Isobutylene	100% LEL
Isopentane	1000 ppm
Isoprene	100% LEL
Isopropanol	200, 500, 1000 ppm, % LEL
JP 4	1000 ppm, % LEL
JP5	1000, 5000 ppm, % LEL
Kerosene	300, 500 ppm, % LEL
Methane	100, 200, 1000, 1500, 2000, 5000 ppm, 1%, 2% by Vol, % LEL
Methanol	200, 500, 1000, 2000, 5000 ppm, 15%, 100% LEL
Methyl Acetate	30 ppm
Methyl Acrylate	60 ppm
Methyl Bromide	20, 50, 60, 100, 500, 1000, 10000, 40000 ppm
Methyl Butanol	100% LEL
Methyl Cellosolve	100% LEL

Gas or Vapor	Full Scale Ranges
Methyl Chloride	100, 200, 300, 2000, 10000 ppm, % LEL
Methyl Ethyl Ketone	100, 500, 1000, 4000 ppm, 100% LEL
Methyl Hydrazine	5 ppm
Methyl Isobutyl Ketone	200, 500, 2000 ppm, 50%, 100% LEL
Methyl Mercaptan	30 ppm
Methyl Methacrylate	100ppm, % LEL
Methyl-Tert Butyl Ether	100% LEL
Methylene Chloride	20,100, 200, 300, 400, 500, 600, 1000, 2000, 3000, 5000 ppm,% LEL
Mineral Spirits	200, 3000 ppm, % LEL
Monochlorobenzene	100% LEL
Monoethylamine	30, 100, 1000 ppm
Morpholine	500 ppm
Naphtha	1000 ppm, 100% LEL
Natural Gas	1000, 2000 ppm, 2%, 4% VOL, 100% LEL
Nitric Oxide	20, 50 ppm
Nitrogen Dioxide	20, 50, 100 ppm
Nitrogen Trifluoride	50, 500, 1000 ppm
Nonane	2000 ppm
Pentane	200, 1000 ppm, % LEL
Perchloroethylene	200, 1000, 2000, 20000 ppm
Phenol	100 ppm
Phosgene	50 ppm
Phosphine	3, 5, 10, 20, 30, 50 ppm
Phosphorus Oxychloride	200 ppm
Phosphorus Pentafluoride	5ppm
Picoline	100% LEL
Propane	100, 1000 ppm, % LEL
Propylene	100, 200, 1000, 5000 ppm and % LEL
Propylene Oxide	100 ppm, % LEL
Silane	10, 20, 50 ppm
Silicon Tetrachloride	1000 ppm
Silicon Tetrafluoride	1000 ppm
Styrene	200, 300 ppm, % LEL
Sulfur Dioxide	50, 100 ppm
TEOS	50, 100 ppm
Tetrahydrofuran	200, 300, 1000 ppm, 100% LEL
Tetraline	100 ppm
Toluene	50, 100, 200, 500, 2000, 5000 ppm and % LEL
Toluene Diisocyanate	15 ppm
Trichloroethane	50, 100, 500, 1000 ppm, 1% by Volume
Trichloroethylene	50, 100, 200, 300, 500, 1000, 2000 ppm, % LEL
Triethylamine	100 ppm
Trifluoroethanol	25, 100 ppm
Trimethylamine (TMA)	50 ppm
Tungsten Hexafluoride	50 ppm
Turpentine	100% LEL
Vinyl Acetate	1000 ppm, %LEL
Vinyl Chloride	20, 50, 100, 500, 1000, 10000 ppm, % LEL
Vinylidene Chloride	50 ppm
Xylene	100, 200, 300, 1000 ppm, 1% by Volume