

# Single Point Monitor

*Now - a rugged, compact system that puts reliable monitoring where you need it.*

**This use-anywhere, fast response monitor is specific to your target gas only**



Until now, the big concern with basic units for toxic gas monitoring was that environmental conditions or other chemicals interfered with accurate detection. That's why Zellweger Analytics, the world leader in toxic gas monitoring equipment, developed the MDA Single Point Monitor (SPM) utilizing our exclusive, interference-free Chemcassette® detection technique.

## Gas sensitivity to ppb levels with physical evidence

The proprietary MDA Chemcassette reacts to trace quantities of a specific gas (or family of gases), darkening the Chemcassette tape in direct proportion to the concentration of target gas present. An LED optical system constantly watches the tape for color development and quantification.

What's more, you get verifiable, physical proof of leaks— without false alarms caused by cross-contaminants.

## More than 50 gas calibrations available

With a simple interchange of Chemcassette and Chemkey, you can select from dozens of toxic, corrosive, or pyrophoric gases to monitor.

The current list of gases and gas families includes: amines, ammonia, bromine, chlorine, chlorine dioxide, diisocyanates, hydrazines, hydrides, hydrogen cyanide, hydrogen peroxide,

hydrogen sulfide, mineral acids, nitrogen dioxide, ozone, phosgene, and sulfur dioxide. New gas calibrations are being developed continuously.



## Configured to your application

You can select from a wide range of user options, tailoring the versatile SPM for reliable monitoring where you need it. For example, you can choose field-programmable gas response, and get portable, battery power for emergency use. You could extend the sample pump capability up to 30 meters while monitoring at higher concentrations with an optional sample dilution system. Consult your Zellweger Analytics representative for your specific application.

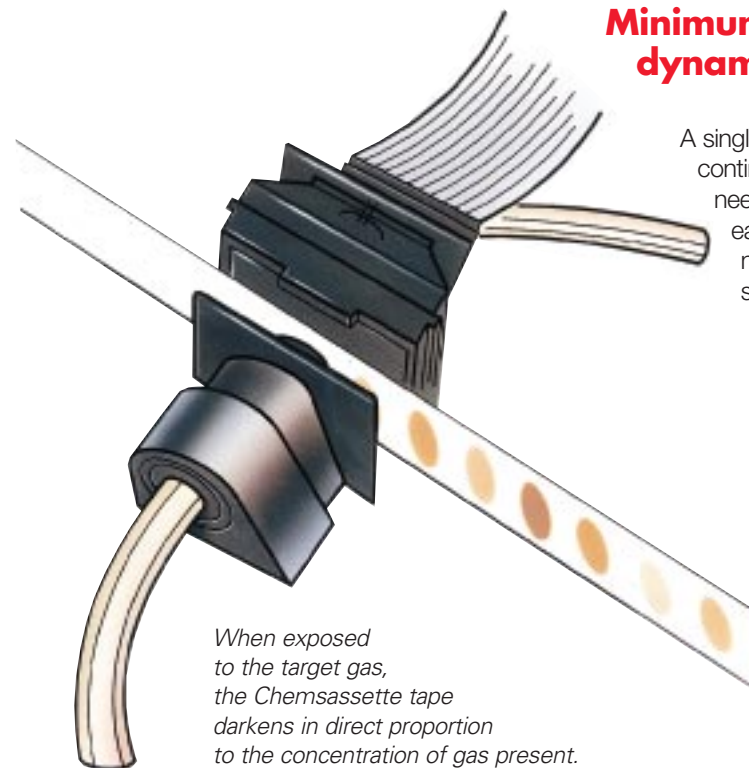
You can also go beyond the built-in local audio/visual alarms and add remote alarms, displays, and alarm resets. Data logging is also available for hard-copy documentation. RS-422 output is available for more sophisticated surveillance. We can also provide complete multi-instrument surveillance systems.

## Minimum maintenance and no dynamic calibration

A single Chemcassette gives you up to a month of continuous, unattended monitoring. And there's no need for dynamic calibration because we gas test each Chemcassette for proper response. So there's no live gas handling required in the field, which saves valuable time and boosts productivity.

## Customized for harsh industrial environments

The SPM's standard weatherproof enclosure will withstand the rigors of outdoor operation. A purged enclosure is optional for hazardous areas. You can also specify the SPM with heating and cooling options to match your environmental requirements.



*When exposed to the target gas, the Chemcassette tape darkens in direct proportion to the concentration of gas present.*

## Typical applications:

The SPM is ideal for:

- Outdoor locations
- Hazardous locations
- Corrosive areas
- Remote sample points
- Gas storage areas
- Perimeter/fencelines
- Survey work
- Emergency response
- High-level ranges of gas
- Ventilation and exhaust systems





# SPM

## Single Point Monitor

**Absolute Protection Without Interference**

# START



*This publication is not intended to form the basis of a contract, and the company reserves the right to amend the design and specifications of the instruments without notice.*



## SPM Detectable Gases

### Detectable Gases:

#### Amines

- Dimethylamine (DMA)
- n-Butylamine (n-BA)
- Methylene Dianiline (MDA)
- p-Phenylene Diamine (PPD)
- Toluene Diamine (TDA)
- Trimethyl Amine (TMA)

#### Ammonia (NH<sub>3</sub>)

#### Bromine (Br<sub>2</sub>)

#### Chlorine (Cl<sub>2</sub>)

#### Chlorine Dioxide (ClO<sub>2</sub>)

- Diisocyanates (CHDI, HDI, HMDI, IEM, IPDI, MDI, NDI, PPDI, TDI, TMDI, TMXDI, XDI)

#### Hydrazines

- MMH
- N<sub>2</sub>H<sub>4</sub>
- UDMH

#### Hydrides

- Arsine (AsH<sub>3</sub>)
- Diborane (B<sub>2</sub>H<sub>6</sub>)

#### Disilane (Si<sub>2</sub>H<sub>6</sub>)

#### Germane (GeH<sub>4</sub>)

#### Hydrogen Selenide (H<sub>2</sub>Se)

#### Phosphine (PH<sub>3</sub>)

#### Silane (SiH<sub>4</sub>)

#### Stibine (SbH<sub>3</sub>)

#### tert-Butylarsine (TBA)

#### tert-Butylphosphine (TBP)

#### Hydrogen Cyanide (HCN)

#### Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>)

#### Hydrogen Sulfide (H<sub>2</sub>S)

#### Mineral Acids

#### Hydrogen Bromide (HBr)

#### Hydrogen Chloride (HCl)

#### Hydrogen Fluoride (HF)

#### Hydrogen Iodide (HI)

#### Nitric Acid (HNO<sub>3</sub>)

#### Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)

#### Nitrogen Dioxide (NO<sub>2</sub>)

#### Ozone (O<sub>3</sub>)

#### Phosgene (COCl<sub>2</sub>)

#### Sulfur Dioxide (SO<sub>2</sub>)

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