GAS DETECTION



GAS DETECTORS FOR INDUSTRIAL ENVIRONMENTS

TOCSIN 150 SERIES ADDRESSABLE GAS SAMPLERS









In many applications in industry requiring gas detection it is often either not possible or desirable to place a gas detector in a particular location. This could be due to the environmental condition of the location or the nature of the environment. For Example

BREWERIES	SUMPS	
BORE HOLES	SLURRY P	PITS
CLEAN ROOMS	F	FOOD PROCESSING
FOOD PACKAGING	VENTILATION DUCTS	
REFRIGERATE	D COLD STORES	HOSPITAL THEATRES

Traditionally these applications would use multi point sequential gas sampling systems. Whilst these overcome some of the issues they are a long way from continuous monitoring can be high maintenance and high cost.

TOCSIN 150 Series Sampers

Overcome the concerns raised by sequential samplers. These are addressable modules providing up to 4 sample points. The samplers can be mixed with conventional gas detectors to form a comprehensive monitoring solution for each part of the site.

Tocsin 150 Series Addressable Sample Modules: Will run from any IGD Addressable Gas Detection Control Panel Can use any IGD Series Gas Detector (Flammable Gases, Toxic Gases, Oxygen) Up to 4 Sample points Per Module Mix With IGD Addressable Point Gas Detectors, ATEX or Safe Area Integrated Zero Check Function During Sampling Each Sample Line Is Monitored For its Running Pressure Allowing Low Flow Reporting Hydrophobic Filters Protect Against Moisture Ingress Latest Piezo Pump Technology, No Pump Seals or wear Parts to Service Simple Servicing









End of line filtration is important to ensure dirt, debris or liquids do not enter the gas sample lines where such material will cause blockages and be difficult to remove. The standard EOL (End of Line) Filter comprises a wall mounting high efficiency disposable filter. The filter is housed inside a stainless steel protection cover with a viewing aperture. Should the application demand a custom EOL then IGD can help.

Tocsin 150 Series Samplers can be used with any IGD series Gas Detector







- In Operation The Sampler Sequentially Draws From Each Port in Sequence as:
- 1. Draws Through The Zero Port For The Time Set And Zero's The Detector
- 2. Moves to The First Port And Samples To Purge The Line For the Preset time
- 3. Updates to the Controller For the Preset Time
- 4. Moves to the Next Port





Use Configurator To Setup The Sample







	T150 SETUP		
	SETTINGS	SETUP (F1)	
Decide How Many Ports To Enable	PORT ZERO PORT1 PORT2 PORT3 PORT4 (4101) (4101) (4102) (4103) (4104) Enabled YES & YES & YES & YES	REPROGRAM (F2)	
Set the Purge <u>Time</u>	Purge Time (Secs)	Ĩ	
Set the Sample Time	Sample Time (Secs) 🗧 30 🗧 20 🗧 20 🗧 20 🗧 20	Ĩ	
Note the Control Panel is Only Updated During the Sample Time Period	Low Flow (mB) $\frac{2}{5}$ 20 Protect Max Conc (ppm) $\frac{2}{5}$ 750 Protect ROC Min Conc (ppm) $\frac{2}{5}$ 250 Protect ROC Rate (ppm/sec) $\frac{2}{5}$ 2576 Prod Date 7/12/6	CANCEL (ESC)	 Set the Allowable Pressure Drop at Which Point The Channel Goes Into Fault to Indicate Low Flow

The Protect Max Conc Sets The Point at Which the Channel is 'Skipped' a 5 Cycles

Protect ROC Min Conc Sets the Point at Which the Channel Rate of Rise Starts to be Checked

Protect ROC Rate Sets the Rate of Rise which will Cause the Channel to be 'Skipped'

The Protect Functions are Designed to Protect an Electrochemical Cell From Damage That Would Occur if the Cell Sampled a High Gas Level For a Long Period. The Trip Points Need to be Considered in Conjunction With the Channel Alarm Levels to Ensure the Channel Alarms Properly and the Cell is Protected. When the Port is in 'Skipping' Mode the Port is Briefly Sampled to Test For Gas. If the Rate of Rise Indicates a High Level is Still Present then The Channel is Skipped. Note the Channel Will Still be in Alarm if Latching Alarms are Set.













Select MORE from the Menu and the Pump Performance Can be Checked.

With a Flow Meter on the Port Check For 0.8 to 1.2L/min of Flow

Selecting Tune Will Vary the Pump Frequency to Achieve Best Flow.









Gas sample Line From calibration Gas Regulator