



Features

- Desktop/Handheld trace gases detector based on Ion Mobility Spectrometry
- Detect and identify trace of explosive, drug substances, combustibles and a wide range of toxics sampled from passenger and cargo surfaces.
- Capable of detecting a variety of gases in the environment
- Support the detection of specified gases that customers want to detect or monitor
- Large size LCD screen
- Minimal maintenance cost through enhanced troubleshooting software
- Environmentally friendly

The new TQ800-IMSS intelligent trace gas detection transmitter series sets a new standard for high performance, flexibility and multi-gas detection capability. The TQ800-IMSS sampling transmitter offers the industry's most cost-effective range of sensor technologies, including special sensor types such as our IMSS-L and IMSS-S versions that provide fast, high-accuracy multi-gas trace detection and monitor

Long-life, high-capacity pumps and IMS sensing elements provide reliable multi-gases detection performance. The IMS sensor also support upgradeable gas sampling library and calibration information, which means they can be conveniently updated and calibrated separately from the transmitter, avoiding the need to transport calibration gas to the field. TQ800-IMSS firmware automatically corrects for long term zero and span "drift", minimizing maintenance and increasing reliability. The application of device firmware and software can supports the remote update of the device gas sampling library.

The Q800-IMSS can be used as a stand-alone device, provides multiple types of interfaces, and can provide multiple communication protocols for existing communication devise or PLC systems. It can also be integrated with our data transmission product to realize remote detection, data acquisition and backup.

The TQ800-IMSS transmitter includes a large, easy-to-read integrated LCD display for visual notification of alarms, programmable low and high alarms, and fault alarms. Pump flow is self-adjusting for maintenance-free operation.

IMSS-80TQ Series

Industrial Gas Detected		Detection Concentration (Velocity)	
Hydrogen sulfide	H ₂ S	2ppm (5s)	
Chlorine	Cl ₂	5ppm (5s)	
Ammonia	NH ₃	50ug/m ³	
Sulfur dioxide	SO ₂	0.7ppm (5s)	
Styrene	C ₈ H ₈	10mg/m ³	
Ethylene oxide	C ₂ H ₄ O	*	
Diborane	B ₂ H ₆	*	
Acetone	C ₃ H ₆ O	*	
Ethyl sulfide	C ₄ H ₁₀ S	*	
Nicotinamide	C ₆ H ₆ N ₂ O	*	
1,4-thioxane	C ₄ H ₈ OS	*	
Hydrochloric acid	HCl	*	
Hydrofluoric acid	HCF/HF	*	
Trimethylamine	C ₁₃ H ₂₁ N	*	
2,6-di-tert-butylpyridine	C ₁₃ H ₂₁ N	*	
Trichloroethane	C ₂ H ₃ Cl ₃	*	
Chlorobenzene	C ₆ H ₅ Cl	*	
Ethanol	C ₂ H ₆ O	*	
Acetic acid (acetic acid)	CH ₃ COOH	*	
Propionic acid	C ₃ H ₆ O ₃	*	
2-Chloroethyl ethyl sulfide	C ₄ H ₉ ClS	*	
Methyl mercaptan	CH ₃ SH	*	
Hexachloroethane	Cl ₃ CCCCl ₃	*	
2,4,6-Trinitrotoluene	C ₇ H ₅ N ₃ O ₆	*	
Tetrabutylammonium bromide	C ₁₆ H ₃₆ BRN	*	
Hydrobromic acid	HBr	*	
Much more	-	*	Customization of sampling library for clients

* Specific calibration concentrations and sensitivities are available upon request from our clients.

Reagent Gas Detected		Detection Concentration (Velocity)	
Cyanogen chloride		2.5ppm (5s)	
DMMP	VSI	50ug/m ³	
Methyl salicylate	HSI	30ug/m ³	
Dipropylene glycol methyl ether	GSI	100ug/m ³	
Much more	-	*	Customization of sampling library for clients

* Specific calibration concentrations and sensitivities are available upon request from our clients.

IMSS-80TQ Series

MAIN UNIT	
Model	TQ800-IMS
Communication	RS232
Detection principle	IMS
Sampling method	Sample draw (auto-adjustment of flow rate) 0.5 L / min +/-10%
Display	Large LCD display (white backlight) Flow rate, communication status, pyrolyzer status, gas detected
Gas alarms	Two alarm levels: 1st alarm - Red
External output	1st, 2nd, and trouble alarms: Relay contact output for each alarm
Self-diagnostic function	System failure, sensor failure, flow failure, communication error NT / ET / Analog
Datalogging	Event history, alarm history, calibration history. Alarm trend (180 sec before / after 1st alarm)
Operation temp & humidity	0 ~ 40°C, 30 ~ 70% RH (non-condensing)
Operating settings	All operational settings are user adjustable through front panel
Power requirements	Note: Approx. 2.5W (Max 5W) with SGU sensor unit
Dimensions	2.8"W x 4.7"H x 5.9"D (70W x 120H x 150Dmm)
Weight	Approx. 0.9kg (2.0lbs), including sensor unit
Mounting	Desktop type and handheld type
Sampling tubing	4 x 6mm PTFE tubing recommended. Tube fittings provided as standard accessories
Bushing	Cable type varies depending on communication method (Cable bushing optional)

Software Support	
Analyzer Tool	
Spectrum Analyzer	