

Yokogawa Engineered Solutions for Ambient Air Monitoring

Yokogawa's pre-engineered solutions overcome application challenges, optimize production, and sustain value over the entire plant lifecycle.

Clean Air Act: U.S. EPA 40 CFR 60/61 defines the need for area monitoring to ensure compliance in case of the unexpected release of potentially dangerous gases into the atmosphere at industrial facilities. Process equipment leaks comprise the typical root cause. Compliance challenges include the following:

- Time and expense associated with a custom designed and engineered solution
- Limited number of sample/monitored points per system
- Time consuming and complicated manual reporting

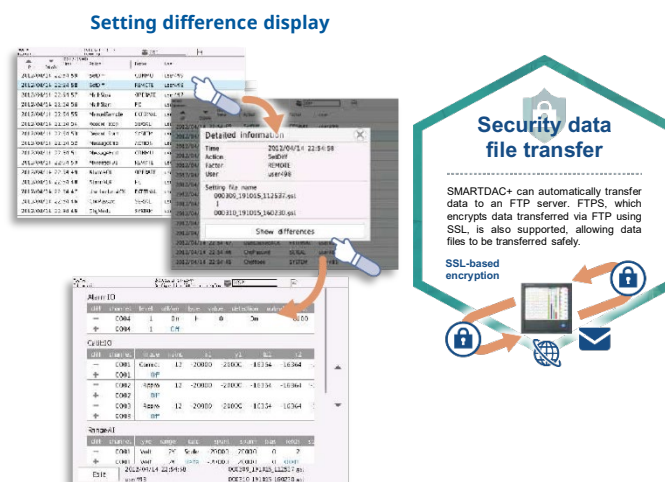


The Yokogawa GC8000 for ambient air monitoring is well-suited to applications that require continual monitoring of many different locations throughout a plant. Paired with the SMARTDAQ+ data recorder, the GC8000 simplifies data collection and allows for custom reporting of concentration values on daily, weekly, monthly, or other user-specified time intervals.

The SMARTDAC+ GX/GP/GM advanced security function provides safe and traceable data management and supports data integrity in accordance with ALCOA+ (Attributable, Legible, Contemporaneous, Original, Accurate, Complete, Consistent, Enduring, Available) mentioned in PIC/S, WHO, MHRA and FDA guidance documents.

Pre-Engineered Benefits

- Minimized engineering and design costs
- Application expertise
- Automated and easy-to-use system
- Reduced maintenance costs
- Automated reporting enables rapid audit prep



Example Output

Ch	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020
Ch ID	A-XXX	B-XXX	C-XXX	D-XXX	E-XXX/D	F-XXX	G-XXXA	H-XXX	I-XXX	J-XXX
Tag	VENT N	VENT S	VENT W	TOP	VENT E	BOTTOM	GROUND	2ND FLOOR	3RD FLOOR	4TH FLOOR
Maximum value(1 File)	1	2	3	4	5	6	7	8	9	10
Minimum value(1 File)	0	0	0	0	0	0	0	0	0	0
Average value (1 File)	0.26	0.52	0.77	1.03	1.29	1.44	1.87	2.10	2.29	2.47
Sum value(1 File)	3678	7356	11034	14712	18390	19980	23453	26785	29327	31673

Specifications

Ambient Air Monitoring Solution	
Ambient Air Temperature	-40 to 140°F
Benzene Analysis Range	0 to 1 ppb
VCM Analysis Range	0 to 20 ppm
EDC Analysis range	0 to 50 mol %
Stream Count	Up to 15
Stream Length	User Defined
Sample Transport Bundles	Provided or Not Provided
3-Sided Shelter	Included or Not Included
Instrument Air Filters	Single, Dual or None
Communication	Ethernet, Fiber
Hazardous Area Classification	Class I, Division 2, Groups B, C, and D, T3

Proven Designs, Quick Installation

The Best Just Got Better



OpreX™ Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

Trademarks Co-innovating tomorrow, OpreX and all product names of Yokogawa Electric Corporation in this bulletin are either trademarks or registered trademarks of Yokogawa Electric Corporation. All other company brand or product names in this bulletin are trademarks or registered trademarks of their respective holders.

YOKOGAWA ELECTRIC CORPORATION

World Headquarters

9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750, JAPAN

<http://www.yokogawa.com>

YOKOGAWA CORPORATION OF AMERICA

YOKOGAWA EUROPE B.V.

YOKOGAWA ENGINEERING ASIA PTE. LTD.

YOKOGAWA CHINA CO., LTD.

YOKOGAWA MIDDLE EAST & AFRICA B.S.C.(c)

<http://www.yokogawa.com/us/>

<http://www.yokogawa.com/eu/>

<http://www.yokogawa.com/sg/>

<http://www.yokogawa.com/cn/>

<http://www.yokogawa.com/bh/>