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GfG Instrumentation



*World-wide manufacturer of gas
detection solutions*



GfG Instrumentation

Exceptional designs with best cost of ownership in the gas detection industry





Introducing the latest multigas detectors from GfG Instrumentation

G888: compact, one-to-six gas atmospheric monitor

G999: compact, one-to-six gas atmospheric monitor with internal motorized pump



Introducing the G888 personal atmospheric monitor

Compact size!

Up to 6 gases in an instrument smaller than most 4 gas personal instruments

Rechargeable battery pack provides up to 24 hours continuous operation

Safe and dependable nickel metal hydride (NiMH) battery technology

No concerns from dangerous Li-ion batteries



Compact size!

Almost one third smaller than G450 and G460

Smaller than most 4 gas personal instruments!



Introducing the G999 atmospheric monitor

Internal motorized pump for continuous sampling from remote locations

Sample from locations up to 100m or more away from instrument

Slide on-off pump switch allows instrument to be operated in either diffusion or pumped operation

Compact size means G999 can be used as personal monitor



G888 battery packs based on safe and proven nickel metal hydride (NiMH) technology

NiMH batteries provide up to 24 hours of continuous operation

NiMH batteries provide excellent cycle life and low temperature performance

Typical run-time after two years for properly maintained NiMH battery packs is usually around 16 hours

No concerns due to dangerous Li-ion batteries

No runaway charging or flammability issues



Three color "Traffic Signal" display

Back lit, three-color, full graphics LCD

Top mounted display with wrap around (360°) LED alarm indicator

LCD includes flip and zoom function

Rugged, double shot molded housing includes integral rubberized boot

Durable high tension steel alligator belt clip



Easy to use!

Operation identical to other GfG instruments

Calibration easy and automatic

DS-400 Docking Station works with new G888 and G999

All you need to do is install a new cradle and update the firmware in your existing docking station

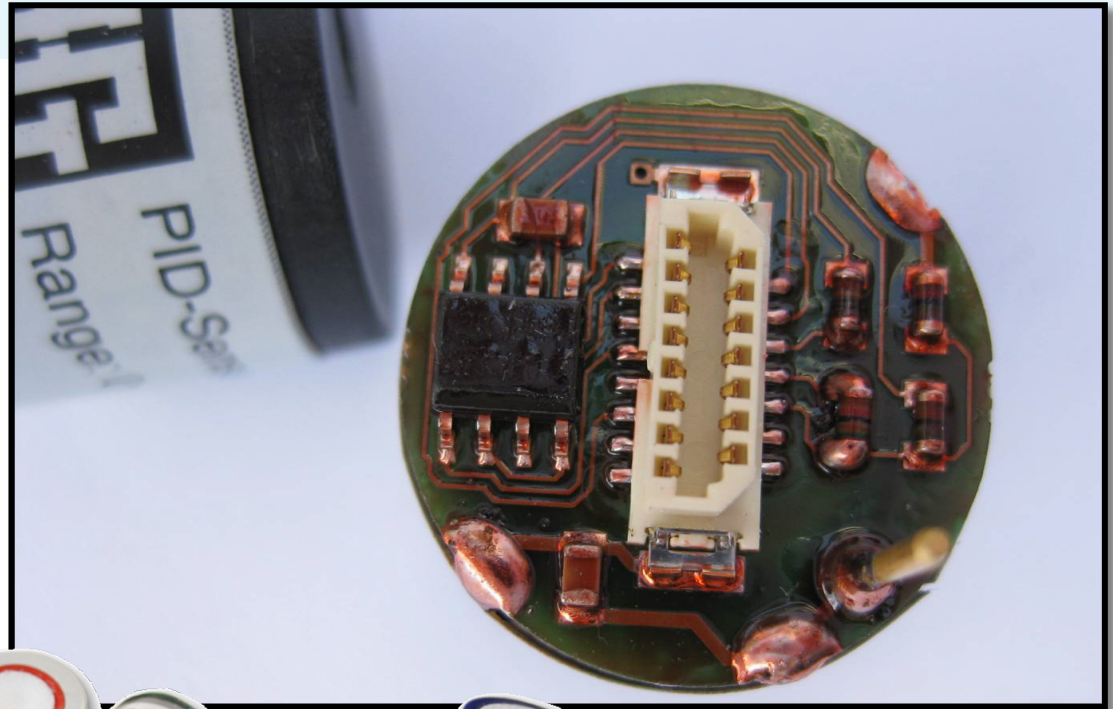
Same cradle works for both G888 and G999



GfG “Smart Sensors”

Flexible “smart sensor” approach allows use of widest range of available sensors from multiple sensor manufacturers

GfG proprietary combustible (pellistor) and infrared sensors offer unrivalled accuracy, stability and longevity



Realtime wireless communication

Optional radio frequency (RF) transmitter

Realtime wireless communication of readings and alarms

Sophisticated wireless “Man down” alarm provides immediate information of movement and horizontal attitude of worker

Powerful transmitter provides over 1km direct line of sight communication

License free ISM band operation

Digital repeater transmitters allow extended transmission distance





Wirelessly integrated fixed and portable systems

Fixed gas transmitters equipped with WILAN or ISM RF gateways

Realtime readings from fixed and portable instruments displayed on same monitor or PLC



GMA200 Visualization Software

Comprehensive system information via digital gateway – Overall system view

GMA200Visual (V 1.0.3) www.GfG.biz
17.02.2015 17:40:54
online

File Options Info

Navigation

- Overall view
 - Gateway 1
 - Tradeshow (Bus-Addr.1)
 - GWZ 1.2 (Bus-Addr.2)
 - GWZ 1.1 (Bus-Addr.3)
 - Gateway 2
 - GMA Nr.1 (Bus-Addr.1)

Overall view

Gateway 1: Tradeshow (Bus-Addr.1) GMA ON

MSP	Description	Measuring val.	Unit	Gas	Details	Advice
2	SN13101424 CC28	0.5	%LEL	CH4		
3	SN12062368 CC28	5.5	%LEL	CH4		
4	Prüfst.22 CO2	0.10	Vol.%	CO2		
5	Prüfst.22 O2	---	Vol.%	O2	SRV, INH, UR, SRQ	
6	Prüfst.22 Schalter	0	%	---		
7	Prüfst.22 CO	---	ppm	CO	SRV, INH	
8	Prüfst.22 O2	20.7	Vol.%	O2		
9	Prüfst.22 O2	20.7	Vol.%	O2		
10	Prüfst.22 Propan	-0.2	%LEL	C3H8		
11	Prüfst.22 O2	---	Vol.%	O2	SRV, INH	
12	Prüfst.22 H2S	---	ppm	H2S	SRV, INH	
13	Prüfst.22 O2	20.9	Vol.%	O2		
14	Prüfst.22 O2	19.6	Vol.%	O2		
15	Prüfst.22 O2	20.9	Vol.%	O2		
16	Prüfst.22 O2	20.9	Vol.%	O2		

Gateway 1: GWZ 1.2 (Bus-Addr.2) GMA ON

MSP	Description	Measuring val.	Unit	Gas	Details	Advice
1	MPST1 CH4 Q001	0.0	%LEL	CH4		
2	MPST1 HC Q002	0.0	%LEL	C9H20		
3	MPST1 C3H8 Q003	0.0	%LEL	C3H8		
4	MPST1 CO Q004	0	ppm	CO		
5	MPST1 Leck Q5001	4.0	mA	Sig.		
6	MPST2 CH4 Q001	0.0	%LEL	CH4		
7	MPST2 HC Q002	0.0	%LEL	C9H20		
8	MPST2 C3H8 Q003	0.0	%LEL	C3H8		
9	MPST2 CO Q004	0	ppm	CO		
10	MPST2 Leck Q5001	4.0	mA	Sig.		
11	MPST3 CH4 Q001	0.0	%LEL	CH4		
12	MPST3 HC Q002	0.0	%LEL	C9H20		
13	MPST3 C3H8 Q003	0.0	%LEL	C3H8		
14	MPST3 CO Q004	0	ppm	CO		
15	MPST3 Leck Q5001	4.0	mA	Sig.		

Gateway 1: GWZ 1.1 (Bus-Addr.3) GMA ON

MSP	Description	Measuring val.	Unit	Gas	Details	Advice
1	MPST4 CH4 Q001	0.0	%LEL	CH4		
2	MPST4 HC Q002	0.0	%LEL	C9H20		
3	MPST4 C3H8 Q003	0.0	%LEL	C3H8		
4	MPST4 CO Q004	0	ppm	CO		
5	MPST4 Leck Q5001	3.9	mA	Sig.		
6	Tagestank Q001	0.0	%LEL	C9H20		

Gateway 2: GMA Nr.1 (Bus-Addr.1) GMA ON

MSP	Description	Measuring val.	Unit	Gas	Details	Advice
1	CC24 CH4	111	%LEL	CH4	FLT, UR, SRQ	
2	EC24 CO	111	ppm	CO	FLT, UR, SRQ	
3		111	---	---	FLT, UR, SRQ	
4		111	---	---	FLT, UR, SRQ	
5		111	---	---	FLT, UR, SRQ	

Log

Time	Message
17.02.2015 17:40:14	GWZ 1.1 connected.

Configuration



GMA200 Visualization Software

Overall system view with high alarm (alarm 2) condition

GMA200Visual (V 1.0.3) www.GfG.biz
17.02.2015 17:59:14
online

File Options Info

Navigation

- Overall view
 - Gateway 1
 - Tradeshow (Bus-Addr.1) **High Alarm**
 - GWZ 1.2 (Bus-Addr.2)
 - GWZ 1.1 (Bus-Addr.3)
 - Gateway 2
 - GMA Nr.1 (Bus-Addr.1)

Gateway 1: Tradeshow (Bus-Addr.1) GMA ON

MSP	Description	Measuring val.	Unit, Gas	Details	Advice
2	SN13101424 CC28	0.5	%LEL CH4		
3	SN12062368 CC28	5.5	%LEL CH4		
4	Prüfst.22 CO2	0.10	Vol.% CO2		
5	Prüfst.22 O2	---	Vol.% O2	SRV, INH, UR, SRQ	
6	Prüfst.22 Schalter	0	% ---		
7	Prüfst.22 CO	---	ppm CO	SRV, INH	
8	Prüfst.22 O2	20.7	Vol.% O2		
9	Prüfst.22 O2	20.7	Vol.% O2		
10	Prüfst.22 Propan	-0.2	%LEL C3H8		
11	Prüfst.22 O2	---	Vol.% O2	SRV, INH	
12	Prüfst.22 H2S	---	ppm H2S	SRV, INH	
13	Prüfst.22 O2	20.9	Vol.% O2		
14	Prüfst.22 O2	15.7	Vol.% O2	AL1 (Alarm 1), AL2 (Alarm 2)	
15	Prüfst.22 O2	20.9	Vol.% O2		
16	Prüfst.22 O2	20.9	Vol.% O2		

Gateway 1: GWZ 1.2 (Bus-Addr.2) GMA ON

MSP	Description	Measuring val.	Unit, Gas	Details	Advice
1	MPST1 CH4 Q0001	0.0	%LEL CH4		
2	MPST1 HC Q0002	0.0	%LEL C9H20		
3	MPST1 C3H8 Q0003	0.0	%LEL C3H8		
4	MPST1 CO Q0004	0	ppm CO		
5	MPST1 Leck Q5001	4.0	mA Sig.		
6	MPST2 CH4 Q0001	0.0	%LEL CH4		
7	MPST2 HC Q0002	0.0	%LEL C9H20		
8	MPST2 C3H8 Q0003	0.0	%LEL C3H8		
9	MPST2 CO Q0004	0	ppm CO		
10	MPST2 Leck Q5001	4.0	mA Sig.		
11	MPST3 CH4 Q0001	0.0	%LEL CH4		
12	MPST3 HC Q0002	0.0	%LEL C9H20		
13	MPST3 C3H8 Q0003	0.0	%LEL C3H8		
14	MPST3 CO Q0004	0	ppm CO		
15	MPST3 Leck Q5001	4.0	mA Sig.		

Gateway 1: GWZ 1.1 (Bus-Addr.3) GMA ON

MSP	Description	Measuring val.	Unit, Gas	Details	Advice
1	MPST4 CH4 Q0001	0.0	%LEL CH4		
2	MPST4 HC Q0002	0.0	%LEL C9H20		
3	MPST4 C3H8 Q0003	0.0	%LEL C3H8		
4	MPST4 CO Q0004	0	ppm CO		
5	MPST4 Leck Q5001	4.0	mA Sig.		
6	Tagestank Q0001	0.0	%LEL C9H20		

Gateway 2: GMA Nr.1 (Bus-Addr.1) GMA ON

MSP	Description	Measuring val.	Unit, Gas	Details	Advice
1	CC24 CH4		%LEL CH4	FLT, UR, SRQ	
2	EC24 CO		ppm CO	FLT, UR, SRQ	
3			---	FLT, UR, SRQ	
4			---	FLT, UR, SRQ	
5			---	FLT, UR, SRQ	

Log

Time	Message
17.02.2015 17:56:58	Alarm 2 at Gateway 1, GMA Tradeshow, Transmitter Prüfst.22 O2

Configuration





SUPPORT 800-959-0329

TRANSLATE

PARTNER LOGIN

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PORTABLE EQUIPMENT
SINGLE GAS DETECTORS
MULTI GAS DETECTORS
ACCESSORIES

Durable, Compact Smart Sensor Design

Highly Configurable
Wide Range Sensors
Full 3 Year Warranty
Optional Draw Pump

INSTRUMENTATION & SUPPORT

We are committed to the protection of life & property by designing, developing & producing the safest & most reliable gas detection equipment available, & to continuously make improvements through constant attention to customer expectations & advancing industry standards.

PORTABLE GAS MONITORS

MICRO IV SINGLE GAS DETECTOR

G300 SINGLE GAS DETECTOR

G450 4 GAS MULTI-GAS DETECTOR

G460 1-6 GAS MULTI-GAS DETECTOR

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Multi-Sensor Atmospheric Monitor



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Choosing the best detection technologies for measuring combustible gas and VOC vapors



gas an oxygen sensor responds to is oxygen. Electrochemical sensors designed to measure a particular gas may not be quite so specific. Although sensor manufacturers design their products to minimize responsiveness to gases other than the one they are supposed to measure, no design is perfect. For instance, CO sensors may also respond to hydrogen as well as to the vapors produced by alcohols, solvents and other volatile organic chemicals (VOCs). Since most interfering effects are positive, the possibility that the sensor may occasionally provide higher than actual readings for CO is generally not regarded as a safety concern. It just means that workers leave the affected area a little sooner. Similarly, hydrogen sulfide sensor readings can be affected by exposure to degreasers and solvents such as methanol and citrus oil cleaners.

The sensor with the most important limitations is the traditional "catalytic" or "pellistor" type percent lower explosive limit (% LEL) combustible gas sensor. In spite of the millions of combustible sensor equipped atmospheric monitors in service around the world, there is still a lot of misinformation and misunderstanding when it comes to the performance characteristics and limitations of this very important type of

single sensor (or type of sensor) is detecting all types of dangerous vapors. This is why workers be exposed to multiple hazards elements with multiple sensors

commonly used sensors are for the measurement of gas, oxygen, carbon monoxide and hydrogen. The majority of multi-sensor instruments are at least these four sensors. However, in many basic sensors are not capable of measuring all of the hazards that are potentially present.

utilized in portable gas detectors are extremely sensitive to what they are designed to measure. The users are frequently unaware of the limitations, sensors in ways that result in inaccurate readings. It is important for instrument users to understand the limitations of their instrument cannot properly measure what they can.

is that there is an extremely wide range of types of sensors available for use in portable instruments. Just because one type of sensor for a particular gas does not mean there are no other types of sensors available for that gas. The only limitation is that the instrument must be flexible to make use of the most appropriate technologies (Figures 1 and 2).

Carbon monoxide and hydrogen sulfide sensors are not designed to measure a single type of gas. There is very little accuracy in the readings these sensors provide. The only



Figure 1: Flexibility to support the needed sensors is critical! The G460 Multi-sensor Atmospheric Monitor from GfG Instrumentation is capable of measuring up to six different atmospheric hazards at the same time.

G460

Multi-gas Detector

Operations Manual



GfG Instrumentation

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oxic VOCs



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Questions?

Thank you!

