

TEST DATE AND CONDITIONS	
Date	04/07/2014
Atmospheric Pressure	993mB
Ambient Temp	22.8°C
Envionics Serial No.	2518

GAS DATA LTD	
Pegasus House	
Seven Stars Estate	
Wheler Rd	
Coventry	
CV3 4LB	
Tel 02476303311 Fax 02476307711	

GFM435-1 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

INSTRUMENT DETAILS	
Serial No	Customer
11133	Sub Surface North West Ltd

INSTRUMENT CHECKS			
Keyboard	✓	Pump Flow	>500cc/min
Display Contrast	✓	Pump Flow @ -200mB	300cc/min
Clock Set / Running	✓	S/W Version	G435.0024/0004
Labels Fitted	✓	Recalibration Date	04/07/2015

GAS CHECKS							
Calibration Gas		Instrument Gas Channels Read					
Gas Type	Applied Conc.	CH4 (%)	tol. (% vol.)	CO2 (%)	tol. (% vol.)	O2 (%)	tol. (% vol.)
N2	100%	0.0	0.0	0.0	0.0	0.0	+/-0.1
CH4	5%	5.1	+/-0.3	0.0	0.0	0.0	+/-0.1
	60%	61.1	+/-3.0	0.0	0.0	0.0	+/-0.1
CO2	5%	0.0	0.0	4.9	+/-0.3	0.0	+/-0.1
	40%	0.0	0.0	40.7	+/-3.0	0.0	+/-0.1
O2	20.9%	0.0	0.0	0.0	+0.1	20.9	+/-0.5

OPTIONAL GAS CHECKS								
Calibration Gas		Instrument Gas Channels Read						
Gas Type	Applied Conc.	Label	H2S	CO			Hexane	tol.
		Range	5000ppm	2000ppm			2%	(% vol.)
N2	100%		0	0			0	+/- 5.0
H2S	1500ppm		1500	0				+/- 5.0
CO	1000ppm		50	996				+/- 5.0
								+/- 5.0
Hexane	20000ppm						2.010	+/- 10.0

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PRESSURE CHECKS							
Calibration Pressure		Instrument Pressure Channels Read					
Pressure @	Applied Pressure	Atmospheric [Ap] (mB)	tol. (mB)				
All ports	current atmospheric	992	+/-2.0				
Ap port (internal)	+800mB(a)	799	+/-5.0				
	+1200mB(a)	1202	+/-5.0				

FLOW CHECKS					
Calibration Flow		Instrument Flow Channels Read			
Applied Flow	Applied Pressure (Pa)	Flow [Flow] (l/hour)	tol. (l/hour)	Differential Pressure [Dp] (Pa)	tol. (Pa)
-30.0 l/hour	-234	-27.9	+/-3.0	-210	+/-50
-3.0 l/hour	-13	-2.5	+/-1.0	-9	+/-6
0.0 l/hour	0	0.0	0.0	0	0.0
+3.0 l/hour	12	2.8	+/-0.5	10	+/-3
+30.0 l/hour	250	30.0	+/-3.0	237	+/-50
+60.0 l/hour	732	59.2	+/-6.0	697	+/-130
+90.0 l/hour	1428	87.8	+/-9.0	1342	+/-250

TEMPERATURE CHECK		
Calibration Temperature	Instrument Temperature Channel Read	
Applied Equivalent Temperature	Temperature [Temp] (°C)	tol. (°C)
-10.0 °C	-10.0	+/- 2.0
0.0 °C	0.0	+/- 1.0
30.0 °C	30.0	+/- 1.0
60.0 °C	60.0	+/- 1.0
100.0 °C	100.0	+/- 1.0

TEST DATE AND CONDITIONS	
Date	7.7.14
Atmospheric Pressure	1002 mB
Ambient Temp	18.9 °C
Envionics Serial No.	5089

GAS DATA LTD

Pegasus House
Seven Stars Estate
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Coventry
CV3 4LB

Tel: 024 76 303311

Fax: 024 76 307711


GFM435-1 (MCERTS) OUTWARD INSPECTION & QUALITY CHECK SHEET

INSTRUMENT DETAILS			
SO Number	Instrument Banner	Instrument Serial Number + SW Version	Job Number(s)
308655	GFM435	11133 : 24.04	W0276

Calibration Technician

DATE

4-7-2014

Inspection Technician

DATE

7.7.14

INSTRUMENT CHECKS		Pass (P), Fail (F) or not applicable(NA)	INSTRUMENT PACKING LIST		Tick if included
Function Tests	Dust Caps Fitted	P	Instrument		✓
	Keyboard Test (All keys)	P	Leather Case		✓
	Backlight Test	P	Instrument Strap		✓
	Clock Set / Running	P	AC Battery Charger (UK)		X
	Comms Test	P	AC Battery Charger (EURO)		X
	Pump Flow Test (In & Out)	P	AC Battery Charger (US)		X
	Overall Leak Test (30mb)	NA	AC Battery Charger (AUS)		X
	Battery Charge Test	P	Gas Sample Pipe		X
	Service Date set to?	4.7.15	Hard Carry Case		X
Channel Tests	Data Logging Enabled?	P	Spares Pot		X
	Verify CH4/LEL/Hexane/PID	P	Allen Key		X
	Verify CO2	P	Flow Sample Pipe		X
	Verify O2	P	Temperature Probe		X
	Verify H2S	P	Vane Anemometer		X
	Verify CO	P	USB Cable		X
	Verify LEL	P	USB Memory Stick		X
	Verify 1st Option gas	NA	SiteMan Software	Ver	X
	Verify atmospheric pressure	P	Internal Filter Pack	Qty	X
	Verify differential pressure	P	External Filter Pack	Qty	X
	Verify flow	P	Field Guide		X
	Verify temperature probe input	P	Extra Items:		
	Verify vane anemometer input	P			
DataBase Checks	Jobcard(s) completed and signed	P			
	Jobcard(s) booked off database	P			
	Calibration certificate completed	P			
	Complete & print QI record	NA			
Label Checks	No. of Calibration label fitted	4356	Comments		
	MCERTS label displayed	P			
	Warranty label fitted	P			
H2S Range	H2S Range from SO	5000			
	H2S Range from cal cert	5000			
	Over-range value correct?	P			