

TEST DATE AND CONDITIONS			
Date		23/07/2020	
Atmospheric Pressure Ambient Temperature Envionics Serial No.		998	mB
		21.8	°C
		5089	

**GFM435 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311

Fax 02476307711



Customer	Sub Surface North West
Certificate Number	121863
Order Number	326077

Serial Number	11133
Software Version	G435-00.0024/0004

Recalibration DUE Date
23/07/21

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	450	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	60	60	40	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5	5	5	5	6	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0	0	0	0	0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	1001	Accept ±5.0
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0

Cross Gas Effects									
Applied Gas (ppm)		Instrument Readings (ppm)							
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	50		1001		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks			
Atmospheric Pressure [AP] (mB)			
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)	
AP Open Ports		997	Accept ± 2.0
AP Port (Internal)	+800 mB	800	Accept ± 5.0
	+1200mb	1200	Accept ± 5.0

Flow Checks					
Borehole Flow			Differential Pressure		
Applied Reading (l/h)	Instrument Reading (l/h)		Applied Pressure (Pa)	Instrument Reading (Pa)	
-30	-30	Accept ± 3.0	-240	-240	Accept ± 50
-3	-3	Accept ± 1.0	-12	-12	Accept ± 6.0
0	0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.1	Accept ± 0.5	13	13	Accept ± 3.0
30	29.8	Accept ± 3.0	249	245	Accept ± 50
60	60.3	Accept ± 6.0	732	742	Accept ± 130
90	90.6	Accept ± 9.0	1429	1453	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10	Accept ± 2.0
0	0	Accept ± 1.0
30	30	Accept ± 1.0
60	60	Accept ± 1.0
100	100	Accept ± 1.0

Technician:
Jack Rutland

Date Tested:
24/07/2020

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

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EnviroNics Serial No.	5089

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

INSTRUMENT DETAILS			
SO Number	Instrument Type	Instrument Serial Number + SW Version	Job Number(s)
326677	GFM435	11/33 G435-24/04	121863

Calibration Technician

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Date 23.7.20

Inspection Technician

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Date 24.7.20

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	P	Instrument Strap		✓
	Clock Set / Running	P	AC Battery Charger (UK)		✗
	Comms Test	P	AC Battery Charger (EURO)		✗
	Pump Flow Test (In & Out)	P	AC Battery Charger (US)		✗
	Overall Leak Test (30mB)	n/a	AC Battery Charger (AUS)		✗
	Battery Charge Test	P	Gas Sample Pipe - (new issue)		✓
	Service Date set to?	23-7-21	Flow Sample Pipe - (new issue)		✓
Channel Tests	Data Logging Enabled?	P	Hard Carry Case		✗
	Verify CH4/LEL/Hexane/PID	P	Spares Pot		✗
	Verify CO2	P	Allen Key		✗
	Verify O2	P	Temperature Probe		✗
	Verify H2S	P	Vane Anemometer		✗
	Verify CO	P	USB Cable		✗
	Verify LEL	P	USB Memory stick		✗
	Verify 1 st Option Gas	N/A	SiteMan Software	Ver 4.13	✗
	Verify Atmospheric pressure	P	Internal Filter Pack	Qty	✗
	Verify differential pressure	P	External Filter Pack	Qty	✗
	Verify flow	P	Field Guide		✗
	Verify temperature probe input	P	Extra Items: Sample Tubes		
	Verify vane anemometer input	P			
	Verify vane anemometer input	P			
DataBase Checks	Jobcard(s) completed and signed	P	Comments:		
	Jobcard(s) booked off database	P			
	Calibration certificate completed	P			
	Complete & print QI record	n/a			
Label Checks	No. of Calibration label fitted	GDC 08940			
	MCERTS label displayed	P			
	Warranty label fitted	P			
H2S Range	H2S Range from Sales Order	5000	ppm		
	H2S Range from Cal Cert	5000	ppm		
	Over-range value correct?	P			