

TEST DATE AND CONDITIONS			
Date		31/07/2024	
Atmospheric Pressure		997	mB
Ambient Temperature		20.2	°C
Envionics Serial No.		5089	

**GFM435 Final Inspection & Calibration
Check Certificate**

GAS DATA LTD

Unit D

Earlplace Business Park

Fletchamstead Highway

Coventry

CV4 9XL

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Customer	Sub Surface
Certificate Number	125422
Order Number	338934

Serial Number	11133
Software Version	G435-00.0024/0004

Recalibration DUE Date
31/07/25

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	500	Accept > 200 cc/min	Pump Flow @ -200mB	300	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 %	
	59.8	60	39.4	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	5.0	5	4.9	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0.0	0	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	110		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		996	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	-29.5	Accept ± 3.0	-204	-200	Accept ± 50
-3	-3.0	Accept ± 1.0	-10	-10	Accept ± 6.0
0	0.0	Accept ± 0.0	0	0	Accept ± 0.5
3	3.0	Accept ± 0.5	11	11	Accept ± 3.0
30	30.3	Accept ± 3.0	240	245	Accept ± 50
60	60.0	Accept ± 6.0	702	703	Accept ± 130
90	90.4	Accept ± 9.0	1363	1381	Accept ± 250

Temperature Checks		
Calibration Temperature	Instrument Temperature Reading $^{\circ}\text{C}$	
Applied Temperature $^{\circ}\text{C}$		
-10	-10.0	Accept ± 2.0
0	0.0	Accept ± 1.0
30	30.0	Accept ± 1.0
60	60.0	Accept ± 1.0
100	100.0	Accept ± 1.0

Technician:
<i>Jack Rutland</i>

Date Tested:
<i>31/07/2024</i>

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, BS EN ISO14001:2015, BS EN ISO45001:2018 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.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.

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GAS DATA LTD Unit D Earlplace Business Park Fletchamstead Highway Coventry CV4 9XL UK +44 (0) 24 7630 3311	 GAS DATA LISTEN · ANALYSE · INFORM
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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)
338934	GFM435	11133 G435-24/04	125422

Calibration Technician

..... J. L. [Signature]

Date 31.7.24

Inspection Technician

..... J. L. [Signature]

Date 1-8-24

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		x
	Backlight	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)	n/a	AC Battery Charger (AUS)		x
	Battery Charge Test	P	Gas Sample Pipe - (new issue)		✓
	Service Date set to?	31/07/25	Flow Sample Pipe - (new issue)		✓
Channel Tests	Data Logging Enabled?	P	Hard Carry Case		x
	Verify CH4/LEL/Hexane/PID	P	Spares Pot		x
	Verify CO2	P	Allen Key		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 1 st Option Gas	N/A	SiteMan Software	Ver 4.15	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: X		
	Verify vane anemometer input	P			
	Jobcard(s) completed and signed	P			
	Jobcard(s) booked off database	P			
DataBase Checks	Calibration certificate completed	P	Comments:		
	Complete & print QI record	n/a			
	No. of Calibration label fitted	GDC 13476			
	MCERTS label displayed	P			
H2S Range	Warranty label fitted	P			
	H2S Range from Sales Order	5000 ppm			
	H2S Range from Cal Cert	5000 ppm			
QA Cylinders Used	Over-range value correct?	P			
	No. of High Range CH4/CO2	SIPC/L110-57522			
	No. of Low Range CH4/CO2/O2	SIPC/L110-60152			
	No. of H2S	SIPC/L110-0032502			
	No. of CO	SIPC/L110-58428			
	No. of Optional Cylinder	N/A			
	No. of Optional Cylinder	N/A			