

Gas Analyser Test Result Sheet

SST SENSING LIMITED	
Product part number:	GAP-B0
Serial number:	201x-xxxxxxxx
Test date:	xx-x-201x

TEST INPUTS					
Oxygen reference #1:	20.85	Vol. % O ₂	Cylinder ref:	315946	
Oxygen reference #2:	5.00	Vol. % O ₂	Cylinder ref:	316852	
Flow rate:	0.15	litre/min	Barometric pressure:	1003	mbar

OUTPUT TYPES	TYPE	MEASUREMENT	RANGES	
Analogue output #1:	4 – 20mA	Vol. % O ₂	O ₂	0 – 25%
MODBUS RTU:	RS485	Vol. % O ₂ , pressure, temperature	Press.	750 – 1260mbar
			Temp.	-50 – 300°C

CALIBRATION CHECK					
OUTPUT	UNIT	LSL	USL	MEASURED VALUE	RESULT
Modbus	%	20.75	20.95	20.85	PASS
Analogue #1	mA	17.28	17.41	17.34	PASS
	%	20.75	20.95	20.85	PASS

VERIFICATION					
OUTPUT	UNIT	LSL	USL	MEASURED VALUE	RESULT
Modbus	%	4.75	5.25	4.89	PASS
Analogue #1	mA	7.04	7.36	7.12	PASS
	%	4.75	5.25	4.88	PASS

PRESSURE & TEMPERATURE					
OUTPUT	UNIT	LSL	USL	MEASURED VALUE	RESULT
Modbus	°C	20	100	64.3	PASS
	mbar	998	1008	1003	PASS

RESPONSE TIME 5% → AIR (T₉₀)	11s
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NOTE: Analogue percentage (%) values are calculated figures based on the conversion formula outlined below:

$$O_2\% = (\text{mA Reading} - \text{Offset}) * (\text{Measurement Range} / \text{mA Range})$$

$$O_2\% = (\text{mA Reading} - 4) * (25 / 16)$$

$$O_2\% = (\text{mA Reading} - 4) * 1.5625$$