



7000FM DATA SHEET FOR CO and CO₂

Noise & Response data

7100FM CO

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 50,100,500,1000 ppm	<0.5ppm	<1% of range	<15 sec.	2.0 sec
B 1000,5000,10000 ppm	<10ppm	<1% of range	<15 sec.	2.0 sec
C 1,5,10%	<0.01%	<1% of range	<15 sec.	2.0 sec
D 5,10,20%	<0.05%	<1% of range	<15 sec.	2.0 sec
E 20,50,100%	<0.2%	<1% of range	<15 sec.	2.0 sec

7200FM CO₂

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 50,100,500,1000 ppm	<0.5ppm	<1% of range	<5 sec.	0.2 sec
B 1000,5000,10000 ppm	<10ppm	<1% of range	<5 sec.	0.2 sec
C 1,5,10%	<0.01%	<1% of range	<5 sec.	0.2 sec
D 5,10,20%	<0.05%	<1% of range	<5 sec.	0.2 sec
E 20,50,100%	<0.2%	<1% of range	<5 sec.	0.2 sec

Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time. Response time is quoted at a sample flow rate of 1 l/min.

Interference Data

	Typical Interference from water (saturated in N ₂ at STP)	Typical interference from methane (100%)	Typical interference from CO ₂ (100%)	Typical interference from CO (100%)	Typical interference from N ₂ O (1%)
7100FM CO	less than +/- 2ppm	less than +/- 1ppm	less than +/- 1ppm	N/A	less than +/- 3ppm
7200FM CO ₂	less than +/- 10ppm	less than +/- 3ppm	N/A	less than +/- 2ppm	N/A

DUAL RANGE CODES

A + B, A + C, A + D, A + E
B + C, B + D, B + E



7000FM DATA SHEET for N₂O

Noise & Response data

7700FM N₂O

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 100,500,1000 ppm	<1.0ppm	<2% of range	<15 sec.	2.0 sec
B 1000,5000,10000 ppm	<10ppm	<2% of range	<15 sec.	2.0 sec
C 1,5,10%	<100ppm	<2% of range	<15 sec.	2.0 sec
D 5,10,20%	<0.05%	<2% of range	<15 sec.	2.0 sec
E 20,50,100%	<0.2%	<2% of range	<15 sec.	2.0 sec

7710FM N₂O

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 100,500,1000 ppm	<1.0ppm	<2% of range	<15 sec.	2.0 sec
B 1000,5000,10000 ppm	<10ppm	<2% of range	<15 sec.	2.0 sec
C 1,5,10%	<100ppm	<2% of range	<15 sec.	2.0 sec
D 5,10,20%	<0.05%	<2% of range	<15 sec.	2.0 sec
E 20,50,100%	<0.2%	<2% of range	<15 sec.	2.0 sec

Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time. Response time is quoted at a sample flow rate of 1 l/min.

Interference Data

	Typical Interference from water (saturated in N ₂ at STP)	Typical interference from 1000ppm CO	Typical interference from 1% CO	Typical interference from 10% CO	Typical interference from 10% CO ₂	Typical interference from 100% CO ₂
7700FM N ₂ O	less than +/- 2ppm	less than +/- 1ppm	less than +/- 3ppm	less than +/- 36ppm	less than +/- 1ppm	less than +/- 3ppm
7710FM N ₂ O	less than +/- 2ppm	N/A	N/A	less than +/- 420ppm	less than +/- 4ppm	less than +/- 70ppm

DUAL RANGE CODES
A + B, A + C, A + D, A + E
B + C, B + D, B + E



7000FM DATA SHEET for Freon R22

Noise & Response data

7430FM R22

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 100,500,1000 ppm	<2.0ppm	<2% of range	<13 sec.	2.0 sec
B 1000,5000,10000 ppm	<20ppm	<2% of range	<13 sec.	2.0 sec
C 1,5,10%	<200ppm	<2% of range	<13 sec.	2.0 sec
D 5,10,20%	<0.10%	<2% of range	<13 sec.	2.0 sec
E 20,50,100%	<0.4%	<2% of range	<13 sec.	2.0 sec

Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time. Response time is quoted at a sample flow rate of 1 l/min.

Interference Data

	Typical Interference from water (saturated in N ₂ at STP)	Typical interference from 1000ppm SO ₂	Typical interference from 100% CO	Typical interference from 500ppm CH ₄	Typical interference from 100% CO ₂
7430FM R22	less than - 6ppm	less than +/- 5ppm	less than +/- 3ppm	less than +/-2ppm	less than - 4ppm

DUAL RANGE CODES
A + B, A + C, A + D, A + E
B + C, B + D, B + E



7000FM DATA SHEET for NO

Noise & Response data

7600FM NO

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 100,500,1000 ppm	<2.0ppm	<2% of range	<13 sec.	2.0 sec
B 1000,5000,10000 ppm	<20ppm	<2% of range	<13 sec.	2.0 sec
C 1,5,10%	<200ppm	<2% of range	<13 sec.	2.0 sec
D 5,10,20%	<0.10%	<2% of range	<13 sec.	2.0 sec
E 20,50,100%	<0.4%	<2% of range	<13 sec.	2.0 sec

Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time. Response time is quoted at a sample flow rate of 1 l/min.

Interference Data

	Typical Interference from water (saturated in N ₂ at STP)	Typical interference from 500ppm CH ₄	Typical interference from 10% CO	Typical interference from 10% CO ₂	
7600FM NO	less than +/-10ppm	less than +/-1ppm	less than +/-2ppm	less than +/-1ppm	

DUAL RANGE CODES

A + B, A + C, A + D, A + E



7000FM DATA SHEET for SO₂

Noise & Response data

7800FM SO₂

Range	Zero Noise pk-pk.	Span Noise pk-pk	Response T ₅₋₉₅	Time Constant
A 100,500,1000 ppm	<1.0ppm	<1% of range	<10 sec.	2.0 sec
B 1000,5000,10000 ppm	<10ppm	<1% of range	<10 sec.	2.0 sec
C 1,5,10%	<0.01%	<1% of range	<10 sec.	2.0 sec
D 5,10,20%	<0.05%	<1% of range	<10 sec.	2.0 sec
E 20,50,100%	<0.2%	<1% of range	<10 sec.	2.0 sec

Range time constants can be configured to suit application sample noise. Longer time constants will reduce noise at the expense of response time. Response time is quoted at a sample flow rate of 1 l/min.

Interference Data

	Typical Interference from water (saturated in N ₂ at STP)	Typical interference from 500ppm CH ₄	Typical interference from 5000ppm CO	Typical interference from 10% CO ₂	
7800FM SO ₂	less than +/-15ppm	less than +/-15ppm	less than +/-2ppm	less than +/-1ppm	

DUAL RANGE CODES
A + B, A + C, A + D, A + E
B + C, B + D, B + E