

SCOTT™ EPA Protocol Gases

Two-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Carbon Dioxide in Air 100 – 9999 ppm† 1 – 20%	30AL	144	4	*	*	36	Q1-318B-590
	30AL	144	4	•	•	36	
Carbon Dioxide in N ₂ 100 – 9999 ppm† 1 – 20%	30AL	140	4	*	*	36	Q1-318B-580
	30AL	140	4	•	•	36	
Carbon Monoxide in Air 0.5 – 9.9 ppm† 10 – 99 ppm 100 – 9999 ppm** 1 – 3%	30AL	144	4	•	•	36	Q1-318B-590
	30AL	144	4	•	•	36	
	30AL	144	4	•	•	36	
	30AL	144	4	•	•	36	
Carbon Monoxide in N ₂ 0.5 – 9.9 ppm† 10 – 99 ppm 100 – 9999 ppm** 1 – 10%**	30AL	140	4	•	•	36	Q1-318B-350
	30AL	140	4	•	•	36	
	30AL	140	4	•	•	36	
	30AL	140	4	•	•	36	
Hydrogen Sulfide in Air 1 – 9.9 ppm 10 – 99 ppm 100 – 999 ppm	30AL	144	4		•	6	Q1-215B-660
	30AL	144	4		•	6	
	30AL	144	4		•	6	
Hydrogen Sulfide in N ₂ 1 – 9.9 ppm† 10 – 99 ppm 100 – 999 ppm	30AL	140	4		•	12	Q1-215B-330
	30AL	140	4		•	12	
	30AL	140	4		•	12	
Methane in Air 1 – 49 ppm 50 – 999 ppm	30AL	144	4	•	•	36	Q1-318B-590
	30AL	144	4	•	•	36	
Nitric Oxide in N ₂ 0.1 – 0.9 ppm 1 – 4.9 ppm† 5 – 9.9 ppm 10 – 29.9 ppm 30 – 99 ppm 100 – 4999 ppm 5000 ppm – 1%	30AL	140	4	•	•	6	Q1-215B-660
	30AL	140	4	•	•	6	
	30AL	140	4	•	•	24	
	30AL	140	4	•	•	24	
	30AL	140	4	•	•	24	
	30AL	140	4	•	•	24	
	30AL	140	4	•	•	24	
Nitrogen Dioxide in Air 1 – 4.9 ppm 5 – 29.9 ppm 30 – 99 ppm† 100 – 499 ppm 500 – 5000 ppm†	30AL	144	4		•	6	Q1-215B-660
	30AL	144	4		•	6	
	30AL	144	4		•	24	
	30AL	144	4	•	•	24	
	30AL	144	4	•	•	24	

* Please Inquire.

** Cylinder pressure and contents will vary.

† EPA Certification period may be shorter at lower concentration. Please inquire.

EPA Protocol Gases continued

Two-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Oxygen in N ₂ 0.4 – 23%† 23.6 – 49%	30AL	140	4	•	•	36	Q1-318B-(*)
	44	213	6		•	36	
Propane in Air 1 – 99 ppm 100 – 999 ppm 1000 – 6000 ppm**	30AL	144	4	•	•	36	Q1-318B-590
	30AL	144	4	•	•	36	
	30AL	144	4	•	•	36	
Propane in N ₂ 1 – 99 ppm 100 – 999 ppm 0.1 – 1%	30AL	140	4	•	•	36	Q1-318B-350
	30AL	140	4	•	•	36	
	30AL	140	4	•	•	36	
Sulfur Dioxide in Air 10 – 99 ppm† 100 – 4999 ppm†	30AL	144	4	•	•	24	Q1-215B-660
	30AL	144	4	•	•	36	
Sulfur Dioxide in N ₂ 10 – 99 ppm† 100 – 4999 ppm†	30AL	140	4	•	•	24	Q1-215B-660
	30AL	140	4	•	•	36	

* O₂ ≤ 5% = CGA 580; 5% < O₂ ≤ 23.5% = CGA 590; 23.6% < O₂ = CGA 296.

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SCOTT™ EPA Protocol Gases

Three-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Carbon Dioxide and Nitric Oxide in N₂							
CO ₂ 100 – 9999 ppm, NO 1 – 4.9 ppm [†]	30AL	144	4	•	•	24	Q1-215B-660
CO ₂ 100 ppm – 20%, NO 5 – 29.9 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 30 – 99 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 100 – 4999 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 5000 ppm – 1% [†]	30AL	144	4		•	24	
Carbon Dioxide and Oxygen in N₂							
CO ₂ 100 ppm – 20%, 0.4 – 23.5% O ₂ [†]	30AL	144	4	•	•	36	Q1-318B-(*)
CO ₂ 100 ppm – 20%, 23.6 – 49% O ₂ [†]	30AL	144	4		•	36	Q1-318B-296
Carbon Dioxide and Sulfur Dioxide in N₂							
CO ₂ 100 – 9999 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	36	Q1-215B-660
CO ₂ 1 – 20%, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	36	
Carbon Monoxide and Nitric Oxide in N₂							
CO 0.5 – 9.9 ppm, NO 1 – 4.9 ppm [†]	30AL	144	4	•	•	24	Q1-215B-660
CO 0.5 – 9.9 ppm, NO 5 – 29.9 ppm [†]	30AL	144	4	•	•	24	
CO 0.5 – 9.9 ppm, NO 30 – 99 ppm [†]	30AL	144	4	•	•	24	
CO 0.5 – 9.9 ppm, NO 100 – 4999 ppm [†]	30AL	144	4	•	•	24	
CO 0.5 – 9.9 ppm, NO 5000 ppm – 1% [†]	30AL	144	4		•	24	
CO 10 – 99 ppm, NO 1 – 4.9 ppm [†]	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 5 – 29.9 ppm	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 30 – 99 ppm	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 100 – 4999 ppm	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 5000 ppm – 1%	30AL	144	4		•	24	
Carbon Monoxide and Oxygen in N₂							
CO 0.5 – 9.9 ppm, O ₂ 0.4 – 49% [†]	30AL	144	4	•	•	36	Q1-318B-(*)
CO 10 – 99 ppm, O ₂ 0.4 – 49% [†]	30AL	144	4	•	•	36	
CO 100 ppm – 9.5%, O ₂ 0.4 – 49% ^{†**}	30AL	144	4	•	•	36	
Carbon Monoxide and Sulfur Dioxide in N₂							
CO 0.5 – 9.9 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	36	Q1-215B-660
CO 10 ppm – 10%, SO ₂ 10 – 99 ppm [†]	30AL	144	4	•	•	36	
CO 10 ppm – 10%, SO ₂ 100 – 4999 ppm [†]	30AL	144	4	•	•	36	
Nitric Oxide and Sulfur Dioxide in N₂							
NO 1 – 4.9 ppm, SO ₂ 10 – 99 ppm [†]	30AL	144	4	•	•	24	Q1-215B-660
NO 1 – 4.9 ppm, SO ₂ 100 – 4999 ppm [†]	30AL	144	4	•	•	24	
NO 5 – 29.9 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	24	
NO 30 – 99 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	24	
NO 100 – 4999 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	24	
NO 5000 ppm – 1%, SO ₂ 10 – 4999 ppm [†]	30AL	144	4		•	24	

* Due to oxygen concentrations in these mixtures, CGA valve connections may vary. Contact your Air Liquide representative.

** Cylinder pressure and contents will vary.

† EPA Certification period may be shorter at lower concentration. Please inquire.

EPA Protocol Gases continued

Three-Component				Dual-Analyzed Standards		EPA Certification Period Months	Recommended Two-Stage Regulator Model Number
Calibration Standard	Size	Contents		RATA Class	Compliance Class		
		CF	m ³				
Oxygen and Propane in N ₂ O ₂ 0.4 – 49%, C ₃ H ₈ 1 ppm – 1.6%†**	30AL	144	4	•	•	36	Q1-318B-(*)
Oxygen and Sulfur Dioxide in N ₂ O ₂ 0.4 – 49%, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	36	Q1-215B-660

* Due to oxygen concentrations in these mixtures, CGA valve connections may vary. Contact your Air Liquide representative.

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SCOTT™ EPA Protocol Gases

Four-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Carbon Dioxide, Carbon Monoxide, Nitric Oxide in N ₂							
CO ₂ 100 – 9999 ppm, CO 0.5 – 9.9 ppm, NO 1 – 4.9 ppm†	30AL	144	4	•	•	24	Q1-215B-660
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, NO 5 – 29.9 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, NO 30 – 4999 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, NO 5000 ppm – 1%†	30AL	144	4		•	24	
CO ₂ 100 – 9999 ppm, CO 10 – 9999 ppm, NO 1 – 4.9 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 5 – 29.9 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 30 – 4999 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 5000 ppm – 1%†	30AL	144	4		•	24	
CO ₂ 100 – 9999 ppm, CO 1 – 10%, NO 1 – 4.9 ppm†	30AL	144	4	•	•	24	
CO ₂ 1 – 20%, CO 0.5 ppm – 10%, NO 1 – 4.9 ppm†	30AL	144	4	•	•	24	
CO ₂ 1 – 20%, CO 0.5 – 9.9 ppm, NO 5 – 29.9 ppm†	30AL	144	4	•	•	24	
Carbon Dioxide, Carbon Monoxide, Oxygen in N ₂							
CO ₂ 100 – 9999 ppm, CO 0.5 – 9.9 ppm, O ₂ 0.4 – 49%†	30AL	144	4	•	•	36	Q1-318B-(*)
CO ₂ 100 ppm – 20%, CO 10 ppm – 9.5%, O ₂ 0.4 – 49%†	30AL	144	4	•	•	36	
Carbon Dioxide, Carbon Monoxide, Propane in Air							
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, C ₃ H ₈ 1 ppm – 1.6%***	30AL	144	4	•	•	36	Q1-318B-590
CO ₂ 100 ppm – 20%, CO 10 – 99 ppm, C ₃ H ₈ 1 ppm – 1.6%***	30AL	144	4	•	•	36	
CO ₂ 100 ppm – 20%, CO 100 ppm – 8%, C ₃ H ₈ 1 ppm – 0.6%***	30AL	144	4	•	•	36	
Carbon Dioxide, Carbon Monoxide, Propane in N ₂							
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, C ₃ H ₈ 1 ppm – 2.9%†	30AL	144	4	•	•	36	Q1-318B-350
CO ₂ 100 ppm – 20%, CO 10 – 99 ppm, C ₃ H ₈ 1 ppm – 2.9%†	30AL	144	4	•	•	36	
CO ₂ 100 ppm – 20%, CO 100 ppm – 10%, C ₃ H ₈ 1 ppm – 2.9%†	30AL	144	4	•	•	36	

* Due to oxygen concentrations in these mixtures, CGA valve connections may vary. Contact your Air Liquide representative.

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EPA Protocol Gases continued

Four-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Carbon Dioxide, Nitric Oxide, Sulfur Dioxide in N ₂ CO ₂ 100 ppm – 20%, NO 1 – 4.9 ppm, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	24	Q1-215B-660
CO ₂ 100 ppm – 20%, NO 5 – 29.9 ppm, SO ₂ 10 – 4999 ppm SO ₂ †	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 30 – 4999 ppm, SO ₂ 10 – 99 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 5000 ppm – 1%, SO ₂ 10 – 99 ppm†	30AL	144	4		•	24	
CO ₂ 100 ppm – 20%, NO 30 – 4999 ppm, SO ₂ 100 – 4999 ppm†	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, NO 5000 ppm – 1%, SO ₂ 100 – 4999 ppm†	30AL	144	4		•	24	
Carbon Monoxide, Nitric Oxide, Sulfur Dioxide in N ₂ CO 0.5 – 10%, NO 1 – 4.9 ppm, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	24	Q1-215B-660
CO 0.5 – 9.9 ppm, NO 5 – 4999 ppm, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 5 – 29.9 ppm, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 30 – 99 ppm, SO ₂ 10 – 99 ppm†	30AL	144	4	•	•	24	
CO 10 ppm – 10%, NO 100 – 4999 ppm, SO ₂ 10 – 99 ppm†	30AL	144	4	•	•	24	
CO 0.5 – 9.9 ppm, NO 5000 ppm – 1%, SO ₂ 10 – 99 ppm†	30AL	144	4		•	24	
CO 10 ppm – 10%, NO 5000 ppm – 1%, SO ₂ 10 – 99 ppm†	30AL	144	4		•	24	
CO 10 ppm – 10%, NO 30 – 4999 ppm, SO ₂ 100 – 4999 ppm	30AL	144	4	•	•	24	
CO 0.5 – 9.9 ppm, NO 5000 ppm – 1%, SO ₂ 100 – 4999 ppm†	30AL	144	4		•	24	
CO 10 ppm – 10%, NO 5000 ppm – 1%, SO ₂ 100 – 4999 ppm	30AL	144	4		•	24	
Carbon Monoxide, Oxygen, Sulfur Dioxide in N ₂ CO 0.5 – 9.9 ppm, O ₂ 0.4 – 49%, SO ₂ 10 – 4999 ppm†	30AL	144	4	•	•	36	Q1-215B-660
CO 10 ppm – 9.5%, O ₂ 0.4 – 49%, SO ₂ 10 – 4999 ppm†**	30AL	144	4	•	•	36	

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Five-Component				Dual-Analyzed Standards		EPA Certification Period	Recommended Two-Stage Regulator
Calibration Standard	Size	Contents		RATA Class	Compliance Class	Months	Model Number
		CF	m ³				
Carbon Dioxide, Carbon Monoxide, Nitric Oxide, Sulfur Dioxide in N ₂							
CO ₂ 100 ppm – 20%, CO 0.5 ppm – 10%, NO 1 – 4.9 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	24	Q1-215B-660
CO ₂ 100 ppm – 20%, CO 0.5 – 9.9 ppm, NO 5 – 4999 ppm, SO ₂ 10 – 4999 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 5 – 29.9 ppm, SO ₂ 10 – 99 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 5 – 29.9 ppm, SO ₂ 100 – 4999 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 30 – 4999 ppm, SO ₂ 10 – 99 ppm [†]	30AL	144	4	•	•	24	
CO ₂ 100 ppm – 20%, CO 10 ppm – 10%, NO 30 – 4999 ppm, SO ₂ 100 – 4999 ppm [†]	30AL	144	4	•	•	24	

† EPA Certification period may be shorter at lower concentration. Please inquire.