

Temperature and Humidity Challenge Tests for Three Carbon Monoxide Detectors

Challenge Conditions	Pocket CO	BW Tech Gas Alert Extreme*	CO Expert 2002
Temperature °C (°F) / Relative Humidity % Challenge concentration 10 ppm /50 ppm	Detector Response (seconds to stabilize at target)	Detector Response (seconds to stabilize at target)	Detector Response (seconds to stabilize at target)
23 (73) / 60	9 ppm (90) / 48 ppm (90)	10 ppm (40) / 50 ppm (30)	10 ppm (85) / 49 ppm (75)
30 (86) / 60	8 ppm (90) / 42 ppm (90)	10 ppm (30) / 50 ppm (25)	8 ppm (90) / 48 ppm (90)
35 (95) / 60	9 ppm (90) / 44 ppm (90)	10 ppm (30) / 50 ppm (20)	10 ppm (90) / 50 ppm (60)
40 (104) / 60	11 ppm (90) / 46 ppm (90)	10 ppm (30) / 50 ppm (20)	10 ppm (40) / 50 ppm (70)
23 (70) / 85	10 ppm (90) / 49 ppm (90)	10 ppm (30) / 50 ppm (25)	8 ppm (90) /
30 (86) / 85	12 ppm (90) / 49 ppm (90)	9 ppm (35) / 50 ppm (27)	9 ppm (90) /
35 (95) / 85	12 ppm (80) / 48 ppm (90)	10 ppm (35) / 50 ppm (22)	9 ppm (90) / 49 ppm (90)
40 (104) / 85	13 ppm (70) / 47 ppm (90)	10 ppm (30) / 50 ppm (22)	10 ppm (50) / 50 ppm (70)

Challenge Conditions	Pocket CO	BW Tech Gas Alert Extreme*	CO Expert 2002
Temperature °C (°F) / Relative Humidity %	Recovery Time (seconds) 10 / 50 ppm	Recovery Time(seconds) 10 / 50 ppm	Recovery Time (seconds) 10 / 50 ppm
23 (73) / 60	30 / 90	11 / 30	30 / 85
30 (86) / 60	20 / 75	20 / 25	25 / 80
35 (95) / 60	25 / 80	10 / 20	25 / 85
40 (104) / 60	25 / 70	10 / 20	35 / 85
23 (70) / 85	30 / 120	10 / 30	19 /
30 (86) / 85	45 / 110	10 / 23	20 /
35 (95) / 85	40 / 100	15 / 23	30 / 65
40 (104) / 85	40 / 70	15 / 25	50 / 75

* uses City Technology MCO MediceL nominal range 0 to 100 ppm (discontinued) calibrated at 10 ppm. Currently uses City Technology 4CF CiticeL 0 to 500 ppm.