

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX ST-NE
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 11:25

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: BAM-1020
 Serial Number: P21275

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.4	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	11:26:30		Certification Expiration: 01/21/15	
Reference Time:	11:27:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.77	-0.4%	0.6%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	9.4	9.0	0.4
	9.4	9.1	0.3
	9.4	8.8	0.6

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	740.0	741.0	-1.0
	740.0	741.0	-1.0
	740.0	741.0	-1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX ST-SE
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 11:05

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: BAM-1020
 Serial Number: P22904

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.2	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	Serial Number: 1377
Clock/Timer Verification ² :			Certification Expiration: 01/21/15	
BAM-1020 :	11:07:34			
Reference Time:	11:07:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.92	-1.3%	1.5%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	7.3	8.1	-0.8
	7.3	8.1	-0.8
	7.3	8.1	-0.8

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	740.0	741.0	-1.0
	740.0	741.0	-1.0
	740.0	741.0	-1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX ST-SW
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 10:45

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: BAM-1020
 Serial Number: P22809

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.2	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	10:47:15		Certification Expiration: 01/21/15	
Reference Time:	10:48:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.94	-1.4%	1.6%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	8.1	8.1	0.0
	8.1	8.1	0.0
	8.1	8.3	-0.2

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	739.0	740.0	-1.0
	739.0	740.0	-1.0
	739.0	740.0	-1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX ST-N
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 10:20

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: BAM-1020
 Serial Number: P22906

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.2	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	10:17:33		Certification Expiration: 01/21/15	
Reference Time:	10:18:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.54	1.0%	-0.8%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	6.6	7.4	-0.8
	6.7	7.5	-0.8
	6.7	7.5	-0.8

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	740.0	740.0	0.0
	740.0	740.0	0.0
	740.0	740.0	0.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

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**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX ST-NW
AQS Site Code: N/A
DATE: 8-Apr-14
TIME: 9:55

CLIENT: Koch
SAMPLER ID: BAM-1020
Model Number: BAM-1020
Serial Number: P22808

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.2	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	9:57:39		Certification Expiration: 01/21/15	
Reference Time:	9:58:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.92	-1.3%	1.5%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
Model Number: deltaCal			
Serial Number: 1377	5.8	6.6	-0.8
Certification Expiration: 01/21/15	5.8	6.6	-0.8
	5.8	6.7	-0.9

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
Model Number: deltaCal			
Serial Number: 1377	739.0	740.0	-1.0
Certification Expiration: 01/21/15	739.0	740.0	-1.0
	739.0	740.0	-1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

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Rev. 3 3/2014

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX NT-SE
AQS Site Code: N/A
DATE: 8-Apr-14
TIME: 13:30

CLIENT: Koch
SAMPLER ID: BAM
Model Number: BAM-1020
Serial Number: M4791

0.3			
Leak Check ¹ : <input type="text"/> LPM 1. Acceptance Criteria: < 0.5 LPM	Flow Rate Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15		
Clock/Timer Verification ² : BAM-1020 : <input type="text"/> Reference Time: <input type="text"/>			
2. Acceptance Criteria: within 60 sec. of Reference Time			
Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
		#VALUE!	#VALUE!

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
			#VALUE!
			#VALUE!
			#VALUE!

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
			#VALUE!
			#VALUE!
			#VALUE!

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: [Greg Mazik](#)

Note: NT-SE monitor could not be accessed due to high water surrounding it.

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX NT-SW
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 13:00

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: 1020
 Serial Number: M4793

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.2	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	13:01:18		Certification Expiration: 01/21/15	
Reference Time:	13:01:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.54	1.0%	-0.8%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	9.8	9.3	0.5
	9.7	9.3	0.4
	9.7	9.1	0.6

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	740.0	741.0	-1.0
	740.0	741.0	-1.0
	740.0	741.0	-1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX NT-NE
 AQS Site Code: N/A
 DATE: 8-Apr-14
 TIME: 12:45

CLIENT: Koch
 SAMPLER ID: BAM-1020
 Model Number: 1020
 Serial Number: P21274

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.5	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	
Clock/Timer Verification ² :			Serial Number: 1377	
BAM-1020 :	12:49:08		Certification Expiration: 01/21/15	
Reference Time:	12:50:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.40	16.33	0.4%	-2.0%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
	8.1	8.1	0.0
	8.1	8.1	0.0
	8.1	8.1	0.0

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI Model Number: deltaCal Serial Number: 1377 Certification Expiration: 01/21/15	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
	739.0	740.0	-1.0
	739.0	741.0	-2.0
	739.0	741.0	-2.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

**BAM-1020 PARTICULATE MATTER (PM) MONITOR
Calibration Data**

SITE NAME: KCBX NT-NW
AQS Site Code: N/A
DATE: 17-Mar-14
TIME: 13:15

CLIENT: Koch
SAMPLER ID: BAM-1020
Model Number: 1020
Serial Number: M4792

FLOW RATE AND LEAK CHECK Calibration Data				
Leak Check ¹ :	0.5	LPM	Flow Rate Calibration Device: BGI	
1. Acceptance Criteria: < 0.5 LPM			Model Number: deltaCal	Serial Number: 1377
Clock/Timer Verification ² :	BAM-1020 : 13:11:28		Certification Expiration: 01/21/15	
Reference Time:	13:12:00			
2. Acceptance Criteria: within 60 sec. of Reference Time				
	Sampler Indicated Flow Rate (LPM)	Calibration Flow Rate (Qa) (LPM)	Percent Difference ³ (Sampler vs. Calibration)	Percent Difference ⁴ (Calibration vs. Design)
	16.70	16.64	0.4%	-0.2%

The BAM-1020 operates using actual flow rates, and converts to standard conditions in the onboard data file

3. Acceptance Criteria: ± 4.0%

4. Acceptance Criteria: ± 5.0%

TEMPERATURE Calibration Data			
Calibration Device: BGI	Sampler Sensor Temperature (T _s) (°C)	Calibration Sensor Temperature (T _a) (°C)	Temperature Difference ⁵ (Sampler - Calibration) (°C)
Model Number: deltaCal	8.9	8.6	0.3
Serial Number: 1377	8.9	8.8	0.1
Certification Expiration: 01/21/15	8.9	8.7	0.2

5. Acceptance Criteria: ± 2.0 °C

PRESSURE Calibration Data			
Calibration Device: BGI	Sampler Sensor Pressure (P _s) (mm Hg)	Calibration Sensor Pressure (P _a) (mm Hg)	Pressure Difference ⁶ (Sampler - Calibration) (mm Hg)
Model Number: deltaCal	741.0	740.0	1.0
Serial Number: 1377	741.0	740.0	1.0
Certification Expiration: 01/21/15	741.0	740.0	1.0

6. Acceptance Criteria: ± 10.0 mm Hg

Calibration Tech: Greg Mazik

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