



GENERAL OPERATING SPECIFICATIONS		REVISIONS
PERFORMANCE SPECIFICATIONS		① 9-6-95
STABILITY	0-50 PPM, ±1 PPM, AMMONIA IS ±2 PPM	INITIAL RELEASE ADDED NOTATION B. 110/220 WAS 100/120 & RELOCATED RED WIRE & REMOVED "VAC" LRB PWS
	51-1000 PPM, ±10% OF READING	SEP 14 1995
SHORT TERM NOISE	±1 PPM PEAK OVER A 10-MINUTE PERIOD, AMMONIA IS ±2 PPM	② 2-9-96
LINEARITY	0-50 PPM ±1 PPM, AMMONIA IS ±2 PPM	ADDED PT. NO'S B15294, B15295 & B15296 ECO#22360
	51-1000 PPM, ±10% OF READING	LRB WSB
WARM-UP TIME (READY)	2 TO 24 HOURS MAX; TYP. 20 MINUTES	FEB 15 1996
RESPONSE TIME	90% OF A STEP-CHANGE IN 70 SECONDS	③ 5-16-97
OPERATING TEMPERATURES	0°C TO 50°C (32°F TO 122°F)	A. REVISED TUBING FITTING DIMENSIONS B. ADDED AMMONIA CALIBRATION INFO C. ADDED ATO INFO ECO-24168 GJT PWS
TEMPERATURE EFFECT	±0.3%/C OF READING	MAY 21 1997
RELATIVE HUMIDITY	0 TO 95%, RH NON-CONDENSING	④ 10-06-97
SAMPLED POINTS	1 OR UP TO 4 OR UP TO 8	A. 04-4 WAS 02-2 B. 08-B WAS 03-3 ECO-24652 WJE PWS
MAXIMUM SAMPLE TUBING LENGTH	*150 FEET WITH 1/4" O.D., 1/8" I.D. TUBING (TOTAL OF INLET & OUTLET)	OCT 09 1997
SAMPLE FLOW RATE	0.75 LPM, TYPICAL	⑤ 12-10-97
BYPASS FLOW RATE	(WITH 150-FOOT, 1/8" ID TUBING)	REVISED TEXT TO IMPROVE CONFIGURATION CODING INFO. ECO# 24888 BAW RJC
OPERATING SPECIFICATIONS		DEC 15 1997
POWER REQUIREMENTS	.88 AMPS @ 120 VAC .54 AMPS @ 240 VAC	⑥ 11-17-98
TROUBLE RELAY	NORMALLY ENERGIZED, FORM C CONTACT: 240 VAC, 8 AMP RESISTIVE SPDT	REMOVED MATRIX TEXT. ECO 500000122900
ALARM RELAYS	NORMALLY DE-ENERGIZED ONE RELAY FOR EACH LEVEL OF ALARM, FORM C CONTACTS: 240 VAC, 8 AMPS RESISTIVE, SPDT	NOV 30 1998
ANALOG OUTPUTS	4 TO 20mA (ISOLATED), 0-10 V, 2K LOAD SOURCING	JCW RJC
MAXIMUM OUTPUT SIGNAL LOAD FOR 4-20 mA OUTPUT	1000 OHMS (INCLUDES WIRING)	⑦ 1-22-99
AUDIO ALARM DRIVE OUTPUT	10 VDC 20 OHM LOAD MAXIMUM, (AVAILABLE ONLY WITH NON-BEACON MODELS)	REPLACE FLOW DIAGRAMS W/ DIAGRAMS P/N'S: 71497, 71498 & 71499 ECO 500000132614
SAMPLE EXHAUST TUBING CONNECTIONS	COMPRESSION FITTING FOR 1/4" O.D. TUBING	JCW RJC
DIMENSIONS	18" HIGH, 16" WIDE, 7" DEEP 45.72cm HIGH, 14.64cm WIDE, 17.78cm DEEP	FEB 03 1999
WEIGHT OF CHILLGARD RT WITH SEQUENCER	45 POUNDS (20 KILOGRAMS)	JCW DLW
TRANSPORT AND STORAGE CONDITIONS		⑧ 2-13-2001
TEMPERATURE	-55°C TO +70°C (-67°F TO 158°F)	REVISED GENERAL OPERATING SPEC'S & EXTERNAL WIRING CONNECTION CHART ECO-500000142472 GJT F5
HUMIDITY	99% RH NON-CONDENSING	
VIBRATION	DESIGNED TO MEET UL 2034, PARA 54.1	
FUSE	2 AMP / 250V FAST ACTING	
ENCLOSURE CLASSIFICATION NEMA 4		

*REQUIRES TEFLON LINED TUBING FOR AMMONIA (MSA P/N 603876)
(ALL OTHER REFRIGERANTS CAN USE POLYURETHANE TUBING -
MSA P/N 603806)

CUSTOMER _____

P.O.# _____

LOCATION _____

TAG # _____

MSA JOB# _____

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MSA STANDARD SHOP PRACTICES APPLY	DRAWN BY LRB	DATE 8-24-95	JOB NO. ER6407
TOLERANCES UNLESS OTHERWISE SPECIFIED	CHECKED BY WB	9-8-95	SCALE
FRACTIONAL ±1/64"	PROJECT ENGINEER PWS	9-8-95	AGENCY CONTROLLED
2 PL. DEC. ±.01	QUALITY ASSURANCE		YES NO
3 PL. DEC. ±.005	K. McKEIGUE	9-8-95	CHILLGARD RT SINGLE, FOUR & EIGHT POINT INSTALLATION OUTLINE
ANGULAR ±1/2"	MANUFACTURING		D SK 3015-290
SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES.	DVP	9-8-95	