



GENERAL OPERATING SPECIFICATIONS		REVISIONS
PERFORMANCE SPECIFICATIONS		① 9-6-95
STABILITY	0-50 PPM, ±1 PPM, AMMONIA IS ±2 PPM 51-1000 PPM, ±10% OF READING	INITIAL RELEASE A. ADDED NOTATION B. 110/220 WAS 100/120 C. RELOCATED RED WIRE & REMOVED "VAC" PWS
SHORT TERM NOISE	±1 PPM PEAK OVER A 10-MINUTE PERIOD, AMMONIA IS ±2 PPM	SEP 14 1995
LINEARITY	0-50 PPM ±1 PPM, AMMONIA IS ±2 PPM 51-1000 PPM, ±10% OF READING	② 2-9-96
WARM-UP TIME (READY)	2 TO 24 HOURS MAX; TYP. 20 MINUTES	ADDED PT. NO'S 815294, 815295 & 815296 ECO#22360
RESPONSE TIME	90% OF A STEP-CHANGE IN 70 SECONDS	LRB WSB
OPERATING TEMPERATURES	0°C TO 50°C (32°F TO 122°F)	FEB 15 1996
TEMPERATURE EFFECT	±0.3%/°C OF READING	③ 5-16-97
RELATIVE HUMIDITY	0 TO 95%, RH NON-CONDENSING	A. REVISED TUBING FITTING DIMENSIONS B. ADDED AMMONIA CALIBRATION INFO C. ADDED ATO INFO ECO#24168 GJT PWS
SAMPLED POINTS	1 OR UP TO 4 OR UP TO 8	MAY 21 1997
MAXIMUM SAMPLE TUBING LENGTH	*150 FEET WITH 1/4" O.D., 1/8" I.D. TUBING (TOTAL OF INLET & OUTLET)	④ 10-06-97
SAMPLE FLOW RATE	0.75 LPM, TYPICAL	A. 04-4 WAS 02-2 B. 08-8 WAS 03-3 ECO-24652 WJAE PWS
BYPASS FLOW RATE	(WITH 150-FOOT, 1/8" ID TUBING)	OCT 09 1997
OPERATING SPECIFICATIONS		⑤ 12-10-97
POWER REQUIREMENTS	.88 AMPS @ 120 VAC .54 AMPS @ 240 VAC	REVISED TEXT TO IMPROVE CONFIGURATION CODING INFO. ECO# 24868 BAW RJC
TROUBLE RELAY	NORMALLY ENERGIZED, FORM C CONTACT: 240 VAC, 8 AMP RESISTIVE SPDT	DEC 15 1997
ALARM RELAYS	NORMALLY DE-ENERGIZED ONE RELAY FOR EACH LEVEL OF ALARM, FORM C CONTACTS: 240 VAC, 8 AMPS RESISTIVE, SPDT	⑥ 11-17-98
ANALOG OUTPUTS	4 TO 20mA (ISOLATED), 0-10 V, 2K LOAD SOURCING	REMOVED MATRIX TEXT. ECO 500000122900
MAXIMUM OUTPUT SIGNAL LOAD FOR 4-20 mA OUTPUT	1000 OHMS (INCLUDES WIRING)	NOV 30 1998
AUDIO ALARM DRIVE OUTPUT	10 VDC 20 OHM LOAD MAXIMUM, (AVAILABLE ONLY WITH NON-BEACON MODELS)	⑦ 1-22-99
SAMPLE EXHAUST TUBING CONNECTIONS	COMPRESSION FITTING FOR 1/4" O.D. TUBING	REPLACE FLOW DIAGRAMS W/ DIAGRAMS P/N'S: 71497, 71498 & 71499 ECO 500000132614
DIMENSIONS	18" HIGH, 16" WIDE, 7" DEEP 45.72cm HIGH, 14.64cm WIDE, 17.78cm DEEP	⑧ 2-13-2001
WEIGHT OF CHILLGARD RT WITH SEQUENCER	45 POUNDS (20 KILOGRAMS)	REVISED GENERAL OPERATING SPEC'S & EXTERNAL WIRING CONNECTION CHART ECO-500000142472 GJT F5
TRANSPORT AND STORAGE CONDITIONS		FEB 03 1999
TEMPERATURE	-55°C TO +70°C (-67°F TO 158°F)	⑨
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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AUTHORIZED COUNTRY	MINE SAFETY APPLIANCE COMPANY PITTSBURGH, PA.		
AUSTRALIA	MSA EUROPE	DATE	JOB NO. ER6407
BRAZIL	NETHERLANDS	DRAWN BY	SCALE
CANADA	PERU	LAB	8-24-95
CHILE	S. AFRICA	CHECKED BY	AGENCY CONTROLLED
CHINA	S.E. ASIA	WB	YES
FINLAND	SPAIN	PROJECT ENGINEER	NO
FRANCE	SWEDEN	PWS	9-8-95
INDIA	SWITZERLAND	QUALITY ASSURANCE	
ISRAEL	MSA BRITAIN	K. McKEIGUE	9-8-95
JAPAN		MANUFACTURING	
KOREA		DVP	9-8-95
MALAYSIA			
MEXICO			

CHILLGARD RT SINGLE, FOUR & EIGHT POINT INSTALLATION OUTLINE
D SK 3015-290