

AQM SPECIFICATION

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DIMS	HEIGHT	WIDTH	DEPTH	WEIGHT
	6.25 in (159mm)	6.25in (159mm)	2.75 in (70mm)	1.8 lbs. (0.82 kgs)
HOUSING	MATERIAL	COLOR	DIELECTRIC STRENGTH	FLAMMABILITY
	ABS/PC BLEND	GRAY / BLACK	5VB (UL 94)	5VB (UL 94)
GENERAL	OPERATING TEMP RANGE	RECOMMENDED STORAGE	ORIENTATION SENSITIVITY	NEMA
	4-122°F (0-50°C)	32-68°F (0-20°C)	NONE	NON-RATED
POWER	INPUT	CONNECTION	SOURCE	PRIORITY
	UNIVERSAL 85~264 Vac	IEC320 C14 (10 A)	NEMA 5-15R / IEC320 C13 POWER CORD (US)	PRIMARY MOMENTARY PUSH BUTTON
	9 VDC	INTERNAL BATTERY BAY	(6) AA ALKALINE BATTERIES 1.5V 3100mAh NON-RECHARGEABLE	BACK-UP (APPROXIMATELY 40 hrs)
	12~24 VDC	PCB TERMINAL (T 13+, T 14-)	SOLID OR STRANDED CONDUCTORS (26-16AWG)	PRIMARY OR BACK-UP (HRS SOURCE DEPENDENT)
CONTROLS	POWER ON/OFF	USER INTERFACE	LANGUAGE	SAMPLE PORT
	MOMENTARY PUSH BUTTON	COLOR TOUCH SCREEN	TRI-LINGUAL ENGLISH/SPANISH/FRENCH	QUICK CONNECT COUPLING AIRLINE & CALIBRATION GAS
DISPLAY	SIZE	TECHNOOGY	ACTIVATION FORCE	DURABILITY
	2.8in (2.27in W X 1.7in H) 71mm (57.6mm W X 43.2mm H)	RESISTIVE TOUCH (BARE OR GLOVED HAND)	10~100 grams	1,000,000 TOUCHES
SENSORS		CO	O2	TEMP/MOISTURE
	TECHNOLOGY	ELECTROCHEMICAL	ELECTROCHEMICAL	DIGITAL
	ELECTRODES	3	2	SMT
	MEASUREMENT RANGE	0-200ppm	1-25% vol. O2	0-100% RH
	ACCUARCY	± 1 % OF SPAN	<0.6 % OF SPAN	±1% RH, ΔT±33°F(0.1C°)
	MAXIMUM OVERLOAD	2000ppm	30% vol. O2	N/A
	RESPONSE TIME (T90)	<25 SECONDS	<15 SECONDS	4 SECONDS
	OPERATING PRESSURE	ATMOSPHERIC ± 10%	ATMOSPHERIC ± 20%	ATMOSPHERIC ± 20%
	OPERATING FLOW RATE	50-100CC/MIN	50-100CC/MIN	50-100CC/MIN
	RELATIVE HUMIDITY RANGE	5 TO 95%RH NON-CONDENSING	5 TO 95%RH NON-CONDENSING	0-100% RH
	WARRANTY LIFE	2 YEARS	1 YEAR	2 YEAR
AIR QUALITY ALARMS		CO	O2	MOISTURE
	SET POINT	10ppm US (5ppm CAN) MAXIMUM	19.5% O2 MINIMUM	ATMOSPHERIC DEW POINT (ADP) 10°F BELOW AMBIENT
	REQUIREMENT	STANDARD PER OSHA: 29 CFR 1910.134(i)(1)(ii)C	USER ARMED PER OSHA: 29CFR 1910.134(i)(1)(ii)A	USER ARMED PER OSHA: 29CFR 1910.134(i)(5)(ii)
	DISPLAY	BACKGROUND BLUE "NORMAL" RED "OUT OF RANGE"	BACKGROUND BLUE "NORMAL" RED "OUT OF RANGE"	BACKGROUND BLUE "NORMAL" RED "OUT OF RANGE"
	AUDIBLE	120dBA PULSING TONE SIREN	120dBA PULSING TONE SIREN	120dBA PULSING TONE SIREN
	LED NORMAL STATE INDICATOR	GREEN LED "AIR" 12VDC 1,200mcd	GREEN LED "AIR" 12VDC 1,200mcd	GREEN LED "AIR" 12VDC 1,200mcd
	LED ALARM STATE INDICATOR	RED LED "QUALITY" 12VDC 1,200mcd	RED LED "QUALITY" 12VDC 1,200mcd	RED LED "QUALITY" 12VDC 1,200mcd
	DC REMOTE	DC REMOTE JACK PINS 1- & 2+ PCB TERMINALS (T 15+, T 16-)	DC REMOTE JACK PINS 1- & 2+ PCB TERMINALS (T 15+, T 16-)	DC REMOTE JACK PINS 1- & 2+ PCB TERMINALS (T 15+, T 16-)
	AC REMOTE	PCB TERMINAL (T 10 L, T 11 N, T 12 GND)	PCB TERMINAL (T 10 L, T 11 N, T 12 GND)	PCB TERMINAL (T 10 L, T 11 N, T 12 GND)
	DRY CONTACT	PCB TERMINAL (T 7 C, T 8 NO, T 9 NC)	PCB TERMINAL (T 7 C, T 8 NO, T 9 NC)	PCB TERMINAL (T 7 C, T 8 NO, T 9 NC)
	RETROFIT ADAPTABLTY	PCB TERMINALS T15 THRU T24 FOR LEGACY CONNECTION	PCB TERMINALS T15 THRU T24 FOR LEGACY CONNECTION	N/A
	4-20ma OUTPUT	OPTIONAL CONSULT MANUFACTURER	OPTIONAL CONSULT MANUFACTURER	OPTIONAL CONSULT MANUFACTURER
	TEST FUNCTION	MAUAL TEST MENU DRIVEN	MAUAL TEST MENU DRIVEN	MAUAL TEST MENU DRIVEN

AIR SOURCE ALARMS		PRIMARY/RESERVE STATUS	RESERVE AVAILABILITY
	SET POINT	PSI FACTORY SET FOR USER	PSI FACTORY SET FOR USER
	REQUIREMENT	INDICATE AIR SOURCE IN USE	INDICATE RESERVE AIR AVAILABILITY
	DISPLAY	BACKGROUND BLUE "NORMAL" RED "OUT OF RANGE"	BACKGROUND BLUE "NORMAL" RED "OUT OF RANGE"
	AUDIBLE	120dBA CONSTANT SIREN	120dBA CONSTANT SIREN
	LED NORMAL STATE INDICATOR	GREEN LED "AIR" 12VDC 1,200mcd	GREEN LED "AIR" 12VDC 1,200mcd
	LED ALARM STATE INDICATOR	RED LED "SOURCE" 12VDC 1,200mcd	RED LED "SOURCE" 12VDC 1,200mcd
	DC REMOTE	PCB TERMINALS AA-T11+, AA-T12-	N/A
	AC REMOTE	PCB TERMINAL (T 10 L, T 11 N, T 12 GND)	PCB TERMINAL (T 10 L, T 11 N, T 12 GND)
	DRY CONTACT	N/A	N/A

MENU		PURPOSE (WHY)	FUNCTION (HOW/WHAT)	STEP BY STEP MENU DRIVEN ROUTINE TO GUIDE USER
	START-UP	SELECT PREFERENCES FOR OPERATION	SET LANGUAGE & UNITS PREFERENCES	✓
	SYSTEM SETUP	SET UP OF GRADE -D BREATHING AIR SYSTEM	GUIDE USER THRU SET-UP FOR SYSTEM USE	✓
	DISPLAYS:			
	STATIC	ALL PERTINENT INFORMATION VIEWABLE ON ONE SCREEN	SINGULAR SCREEN TO DISPLAY ALL MONITORED CONDITIONS	AUTOMATIC
	CYCLING	USES LARGER FONTS FOR INCREASED VIEWING DISTANCE	DISPLAYS MONITORED CONDITIONS ONE AT A TIME	✓
	MAINTENANCE:			
	MANUAL TEST	VERIFY PROPER FUNCTION OF LOCAL & REMOTE INDICATORS	ACTIVATES ALL VISUAL/AUDIBLE INDICATORS & OUTPUTS	✓
	CALIBRATION	INSURE INSTRUMENT'S GAS READING ACCURACY	CALIBRATES ALL INSTALLED SENSORS, UPDATE SERVICE LOG	✓
	REFERENCE GASES	PRESETS REFERENCE GAS VALUES FOR USE IN CALIBRATION	ADJUST GAS VALUES TO MATCH CALIBRATION CYLINDERS IN USE	✓
	SENSOR REPLACEMENT	REPLACE OUT OF SERVICABLE RANGE SENSORS	CO AND/OR O2 SENSOR REPLACE, UPDATE SERVICE LOG	✓
	ABOUT	UNIT & COMPANY INFO, QR FOR MANUAL, REGULATORY INFO	SCROLLABLE INFORMATION SCREENS	✓
	SERVICE LOG	TRACK SERVICE/MAINTENANCE AND SCHEDULING EVENTS	UPDATE SERVICE/MAINTENANCE EVENTS UPON COMPLETION	AUTOMATIC
	SETTINGS:			
	UNITS	CONFORM TO ORGANIZATIONS UNIT OF MEASURE PREFERENCE	SET TEMPERATURE UNIT (°F, °C) MOISTURE UNIT (ADP, PPM)	✓
	LANGUAGE	CONFORM TO ORGANIZATIONS LANGUAGE NEEDS	SELECT LANGUAGE MONITOR DISPLAYS	✓
	CONFIGURATION	CONFORM TO ORGANIZATIONS USAGE REQUIREMENTS	ACTIVATE / DEACTIVATE MONITOR FEATURES	✓
	SCHEDULING	CONFORM TO ORGANIZATIONS MAINTENANCE REQUIREMENTS	SET MAINTENANCE AND REMINDER SCHEDULES	✓
	BRIGHTNESS	POWER CONSERVATION WHEN RUNNING ON AA BATTERIES	ADJUSTS DISPLAY BRIGHTNESS 10-100%	✓
	FACTORY RESET	CANCELS ALL "USER SETTINGS" RETURN TO "ORIGINAL" SETTING	RESETS MONITOR TO ORIGINAL FACTORY SETTINGS	✓