

ALTAIR® Pump Probe

Bid Specifications



Physical Characteristics	
GAS DELIVERY	Unit shall be capable of sampling up to 50 feet (15m) at ≥ 0.2 lpm Gas delivery time shall be ≤ 1 second per 1 foot (0.3m)
SIZE	Unit shall not exceed 7.3" L x 1.9" W x 1.3" D in total size (18.5 cm L x 4.8 cm W x 3.3 cm D)
WEIGHT	Weight shall not exceed 9.2 oz. (260g)
HANDLING	Unit shall be a one-handed operation device
CASE MATERIAL	Unit shall have rugged rubberized over-mold
INGRESS PROTECTION	Unit shall be minimum IP65-rated for dust and water ingress
STATUS INDICATORS	Unit shall have 3 LED indicators for Flow, Battery and Charge indication

Basic Operational Features	
INSTRUMENT BUTTONS	Unit shall have a single button on instrument; clearly marked, intuitive, and easy to operate while gloves are worn
INADVERTENT SHUTOFF	Instrument shall be designed to protect against accidental shutoff
FLOW STATUS	Device shall have a visual indicator for normal operation

Device Alarms	
VISUAL ALARMS	Visual alarms shall consist of high brightness LED's on top of unit
AUDIBLE ALARM	Audible alarm shall be rated at >90 dB (typical)
FLOW ALARM	Unit shall activate audible and visual alarms in the event of a low flow or blocked flow path condition
BATTERY ALARM	Unit shall provide user with 30-minute warning of batter power loss in all environmental conditions. Power consumption alarms shall activate audible and visual alarms.

Basic Operational Features	
RUN TIME	Device run time shall be 30 hours continuous running (Normal Operating Temperature)
POWER SUPPLY	Device shall be equipped with a rechargeable battery
CHARGE TIME	Unit shall be able to fully charge in ≤ 4 hours
BATTERY LIFE INDICATION	Device shall provide visual warning of low battery state
CHARGING CRADLE	Optional charging cradle shall be offered
CHARGER INPUT VOLTAGES	Chargers shall be available for 110VAC/220VAC and 12-24VDC
CHARGING STATUS	Device or charging cradle shall provide visual indication of battery charging status

Sampling System	
SAMPLING SYSTEM FILTERS	Unit must contain user-replaceable filters to prevent liquid and dust ingress
SAMPLE LINES	Unit shall be provided with optional sample lines of 10ft (3m), 25ft (8m), 50ft (15m) lengths
SAMPLE LINE LENGTH	Unit must be capable of sample draw from 50 feet within 50 seconds
INGRESS PROTECTION	Unit shall be designed to prevent water and debris from entering the unit
INSTRUMENT CONNECTION	Unit shall be designed to quickly and easily connect to a diffusion style instrument

Environmental	
TEMPERATURE	Normal Operation: -20 °C – 50 °C Charging: 10 °C – 35 °C Storage: -5 °C – 40 °C
HUMIDITY	15% – 90% RH (non-condensing) continuous
DROP TEST	Can survive an incidental drop of 10ft (3m)

Maintenance and Warranty	
MAINTENANCE	Unit shall have a filter that is easily accessed and replaced by users if desired by the purchaser
WARRANTY	Unit shall have a three-year warranty on all electronics, battery and non-consumable components

Certifications	
USA AND CANADA	USA cCSAus Class I,[II,III] Div. 1, Groups A, B, C, D Ta= -20 C + 50°C Canada CSA Class I, Div. 1, Groups A, B, C and D, Ta= -20°C to + 50°C
EUROPE	ATEX ATEX II 2G Ex ia IIC T4 Gb Ta= -20C to+50°C
AUSTRALIA/NEW ZEALAND	IECEX Ex ia IIC T4 Gb Ta= -20C to+50°C
CHINA	China Ex ia IIC T4 Ga (Ta= -20C to+50°C)
MANUFACTURING QUALITY	Unit manufacturer must be certified with ISO 9001 provisions