압력 챔버용 공기 측정기



Model: HYPERBARIC

용 도(Applications)

- 압력 챔버 중의 CO2, O2 및 압력 측정
- 각종 가압 챔버 및 감압 챔버의 공기질 측정
- 잠수함 내의 공기질 측정
- 잠수용 호흡기체의 공기질 측정

특 징(Features)

- IP65의 방진 및 방수 등급
- 알람 및 경보 표시 기능
- 미 해군실험 다이빙 유닛(NEDU) 승인제품
- 0.75~10 bar 의 압력조건에서도 측정 가능
- 24시간 이상의 충전식 배터리 장착

사 양(Specifications)

측정 항목	측정 범위	센서타입	
CO ₂	0-30,000ppm SEV* Dual wavelength infra-red		
O_2	0-250% SEV	Electrochemical	
Pressure	0.75 ~ 10 bar	-	

* SEV(대기압 환산농도, Surface equivalent value) : 기체의 용량농도 (%, ppm)에 환경압력(절대압력)을 곱한 값

GAS RANGES					
Gases measured	CO2 O2	By custom dual wavelength infra-red including reference channel By electrochemical cell			
Oxygen cell lifetime	Approximately 18 months in air				
	Cell	Range	Typical accuracy	Repeatability	
Gas ranges	CO2 O2	0-30,000ppm SEV 0-250% SEV	±10% of reading ±5% of reading	±1% of reading ±0.2% vol	
Units of measurement	CO2 O2	ppm SEV (surface equivalent value) User selectable - %vol (volume) or ppATA (partial pressure)			
Resolution	CO2 O2	10ppm 0.1% vol			
Response time (T90)	CO2 O2	≤20 seconds ≤40 seconds			
PRESSURE MEASUREMENT					
Units of measurement	User sele	User selectable – mbar (millibar), atm (atmospheres), fsw (feet of sea water)			
Typical accuracy	±2% of reading				
Repeatability	±1% of reading				
Resolution	1 mbar				
Pressure compensation	Oxygen gas reading can be compensated in real time				
PUMP					
Туре	Diaphragm fitted with brushless motor				
Flow	Approx. 300 ml/min				
Flow fail point	User sele	User selectable – -200 to -400mbar vacuum			
Maximum vacuum restart	-400 mba	-400 mbar maximum			
POWER SUPPLY					
Battery type	Recharge	Rechargeable nickel metal hydride battery pack (not user replaceable)			
Battery life	Up to 24 hours				
Battery lifetime	Minimum	Minimum 1000 charge cycles			
Battery charging	28Vdc external power supply and internal charging circuit. Compatible with 100-240Vac supplies				
Charge time	Approxim	Approximately 3 hours			
Alternative power	28Vdc power supply if used with additional custom-made lead				

FACILITIES				
Display	Large, easy to read, backlit, LCD display			
Alarms	User selectable alarms for CO2, O2, and pressure that provide a visual and audible indicator to the user			
Available memory	1100 readings and 450 events			
Communications	USB via a custom waterproof connector			
Software	Analyser Data Manager software available for download of instrument readings and viewing of the instrument event log			
ENVIRONMENTAL CONDITIONS				
Operating temperature	0°C to +50°C (32°F to 122°F)			
Storage temperature	-10°C to +60°C (14°F to 140°F)			
Pressure range	0.75 to 10 bar absolute			
Relative humidity	0 to 100% non-condensing			
IP rating	IP65			
PHYSICAL				
Weight	1.5kg approx. (3.3lb)			
Size	L 235mm, W 230mm, D 55mm (L 9.5", W 9", D 2.25")			
Case material	ABS plastic			
Keys	Numeric keypad with 'tactile' membrane			
Display	320 x 240 pixels, white LED backlight			
Filters	Inlet, outlet, and vent are all user-replaceable 1.0µm PTFE filters			
CONFIGURATIONS				
HYPERBARIC Analyser	1 ea			
Power supply	1 ea			
Soft carry case	1 ea			
Sample tubes kit	1 ea			
Manual	1 ea			