

WBGT 측정기 (Wet Bulb Globe Temperature Monitor)



Model : Microtherm

용도(Applications)

- 산업현장의 Heat Stress 평가 측정
- 실내환경의 일반적인 WBGT 측정

특징(Features)

- 대형 LCD로 측정값, 그래프 표시
- 배터리 사용으로 장기간 측정
- WBGT 알람 기능
- 습구온도 Low Water Lever 표시 기능
- 데이터 저장 및 다운로드 가능
- 상대습도, 이슬점 계산 가능
- 10m 연장케이블 사용 하여 원거리 측정 가능
- 노동 휴식 시간 계산 가능

SPECIFICATIONS

Sensor specifications

Parameter	RANGE	ACCURACY
Air temperature	10 ~ 60°C	± 1°C
Globe temperature	20 ~ 120°C	± 0.5°C (20 ~ 50) ± 1.0°C (50 ~ 120)
Natural wet temperature	5 to 40°C	± 0.5°C

PRTD 100 elements 0.1% using 4 wire extension cables available in 10m, lengths up to 30m

Displayed Data Values

Ta	Air temperature
Tg	Globe temperature
Tnw	Natural wet temperature
WBGT	Inside and Outside
%RH	Based on "Ta" and non aspirated "Tnw" sensor
Dewpoint	Based on "Ta" and non aspirated "Tnw" sensor

Time Weighted WBGT values	Based on a 1 hr rolling average updated every 30 seconds. (During the first hour '— -' is displayed.)
Data Logger	
Total record capacity	512k memory providing up to 49,100 data records
Number of runs stored	32
Logging interval	30 seconds to 1 hour
Software	
Operating System	MS Windows 95/98 NT, XP, Vista compatible. RS232 serial port, 8MB RAM, FDD & HDD, VGA Graphics
Power	
Battery Power supply	4 x AA cells Dry cells or NiMH
Battery life	40hrs NiMH / 85hrs alkaline. Battery monitoring warning and auto power down. Consumption; 30mA typical
External power supply	3.5 to 14VDC (12v nominal) 90-240VAC Universal input mains power daptor. Internal fast charge circuitry
Communications	RS232
Applicable Standards	ISO 7243/7726, OSHA
Operating Temperature Range	
Sensors	-5°C to + 120°C
Electronics	-5°C to + 60°C
Dimensions	Instrument : 245 x 95 x 50mm Array : 90 x 225 x 65mm Sensor/carry case : 135 x 490 x 370mm
Weight	Instrument only : 0.75kg Sensor/carry case : 0.97kg

CONFIGURATIONS

Microtherm Heat Stress WBGT meter	1 ea
Sensor Array	1 ea
Pack of spare wicks and screwdriver	1 ea
Rechargeable batteries (x4)	1 ea
Universal mains PSU (110/240VAC) with UK, Europe and USA plug adaptors	1 ea
Distilled water countainer	1 ea
RS232 communication cable (USB adaptor available)	1 ea
Windows Win HSM software	1 ea
Hard carrying case	1 ea

OPTIONAL ACCESSORIES

10m sensor extension lead	1 ea
Table top tripod (0.2m)	1 ea
Lightweight Tripod (1.16m)	1 ea