

آزمایشگاه عوامل فیزیکی

Physical agents Lab

Sound Level Meter



Poland/Svantek
Svan947

Meter mode: SPL-Leq-Ldn-Ltm3-
Ltm5
Statistics-Ln(L1-L99)-Lmax-Lpeak-
Time history
Analyzer: 1/1-1/3Octave
Weighting Filter: A-C and Lin
N:2



Quest
calibrator CA92
Meter mode: SPL(Max-Min)-Leq-SEL-
Time
Analyzer: 1/1-1/3Octave
Weighting Filter: A-B-C and Lin
Response: Fast/Slow-Peak/Impulse

N:1



Taiwan/Lutron
SL41-12
Calibrator: SC-947
Weighting Filter: A
Response: Fast/Slow
N:1

Noise Dosimeter



Poland/Svante

SV102

Acoustic Dosimeter mode: Leq-
SPL-Peak-SEL-Dose-D-8h-LAv-
SEL8-PSEL-E. E-8h-Peak counter
SLM mode: Leq-SPL-SEL-LEp/d-
Lden-Ltm3-Ltm5
Statistics-Ln(L1-L99)

Demensin: 95*83*33mm (without
microphone)

Weight: 260gr with battery
(without microphone)

N:1



UK / Casella cel

Cel360

Dosimeter mode :L-Leq-Lavg-Lmax-
Lmin-Lpeak-Duration

Total measurement range:30-140 dB

Frequency Weighting rms:A&C

Frequency weighting Peak:C&Lin(Z)

Time weighting: F/S –Impulse

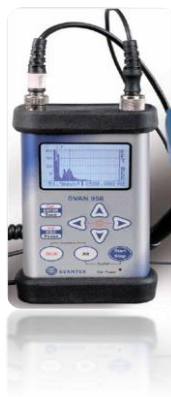
Battery life:>35h

Dimension: 120*65*30

Weight: 280gr

N:1

Hand- Arm Vibration Analyser



Poland/Svante

SV106

1/1 and 1/3 Octave real-time analysis

Frequency Range: 0.1/2000HZ

Dimension: 140*83*33

Memory:16 MB

Weight:390gr

Power supply :>12h

N:1

UV Meter



Swedish/Hagner

Detector: silicon photodiode

Measuring range: $0.001-2.000 \text{ W/m}^2$

Spectral sensitivity:

UV-A(315-380nm) /UVb(280-315)

/UVc(200 - 280)

Accuracy: Better than $\pm 3\%$

Power supply: 9 volt battery type PP3

Dimensions: 135*75*35

Weight: 190g

N:

UV-A: 2

UV-B/1UV-C: 1

Measurement Device of Electromagnetic Wave



USA/ETS.Lindgren/ HI-3603

VDT/VLF survey Instrument

Wide Dynamic Range

On Board Data Logging

Combination E&H Reading

127Readig (max)

2-300KHz Electric

8-300KHz Magnetic

Frequency Response : $\pm 2\text{dB}$

N:1

IR Meter



Swedish/Hagner

Ec1-X IR

Detector: silicon photodiode- Filters and cosine corrected

Measuring range: $0.01-20.000 \text{ W/m}^2$

Spectral sensitivity: 700-1500nm

Accuracy: Better than $\pm 3\%$

Power supply: 9 volt battery type PP3 alkaline(350hrs)

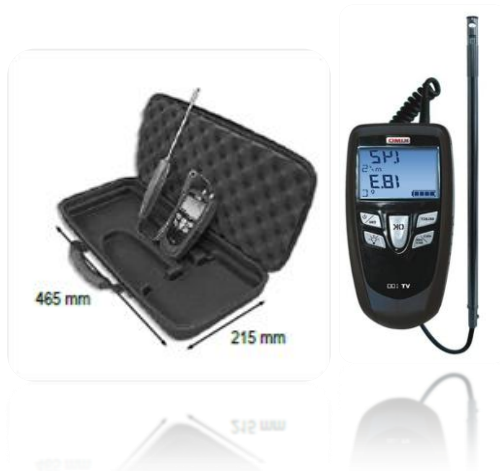
Weight: 190g

N:2

thermocouple anemometer

VT100

France/ Kimo



Measuring units:

Air velocity/s-fpm-Km/h

Temperature: $^{\circ}\text{C}$ - $^{\circ}\text{F}$

Airflow: m^3/h -cfm-l/s- m^3/s

Measuring range:

0/15-30m/s

-20- 80 $^{\circ}\text{C}$

0-99/999 m^3/h

Dimension:

70/6*147/7*34/7 m

Weight: 190g

N:2

Van Probe thermo- anemometer

LV110

France/ Kimo



Measuring units:

Air velocity/s-fpm-Km/h

Temperature: $^{\circ}\text{C}$ - $^{\circ}\text{F}$

Airflow: m^3/h - cfm -l/s- m^3/s

Measuring range:

0/25-35m/s

-20- 80 $^{\circ}\text{C}$

0-99/999 m^3/h

Dimension:

70/6*147/7*34/7 m

Weight: 190g

N:2

Kata Thermometer

UK/Casella CEL

Temperature range:

53 $^{\circ}\text{C}$

Dimension:

225*19*19

Weight: 40g

N:

Silver:2

Simple: 2



Microtherm Heat Stress WBGT

UK/Casella CEL



WBGT (indoor and outdoor)
1Hour (TWA) WBGT Values
Relative Humidity (%)
Dew point

Battery life: 30hrs NiCad/85hr alkaline

Weight: Sensor /Carry case 970g. Instrument only 750g

N:1

Globe Thermometer

UK/Casella CEL



N:3

Whirling Hygrometer

UK/Casella CEL
Iran



Weight: 200g

Range: -15-50 °C

Dimensions: 230*145*30mm

N:3

Lux-meter

Swedish/Hagner



Measuring light & brightness

Detector: Solicon photodiode

Measuring range: 0.1-200/000 Lux

Accuracy: Better than $\pm 3\%$

Dimensions:

135*75*35mm

Weight: 190 g

N:2

Lux-meter

Taiwan/Lutron



LX-1108

Measurement range: 5 range

Dimensions:

200*68*30mm

Weight: 220 g

N:1