SIZE	COUNTS		2012/11/08 07:39:08
0.5um	10777		
0.7um	2404		Location00
1.0um	1357		
2.5um	334		Time: 00:00:00
4.0um	152		Delay: 00:00:01
5.0um	50		Volume: 2.78L
7.0um	31		Sample: 0/1
10.0um	21		25°C
			42%RH Σ
COUNT	SETUP		LABEL

F1 F2 F3

↵ ▲ MASS

⏻ ▼ COUNT

TES 5200
PARTICLE MASS COUNTER

5110 Particle Counter
5200 Particle Mass Counter

TES

FEATURE:

❑ Particle mass & particle counter in a single handheld unit. **(5200)**
❑ Six mass ranges and eight particle sizes. **(5200)**
❑ User K-factors setting for special particulate with different densities. **(5200)**
❑ Six particle sizes. **(5110)**
❑ Integrated temperature/humidity sensor (no need for external add-on).
❑ Flow rate 2.83 L/minute (0.1 CF/minute).
❑ Rechargeable battery provides up to 4 hours of continuous operation (charge time 2 hours).
❑ Buffer function allows storing and redisplay of up to 500 measurement data sets.
❑ SD storage device.

APPLICATIONS:

❑ Monitoring Cleanrooms
❑ Controlled Environments
❑ Indoor Air Quality
❑ Hospitals & Clinics
❑ Process Control

❑ HVAC Applications
❑ Filter Testing
❑ Mining & Ore Processing
❑ Emission Sourcing
❑ Monitoring Growning Rooms

SPECIFICATIONS

Optical system	Sideway light-scattering method	
Light source	Laser diode	
Laser product class	Class 1, IEC 60825-1 / EN 60825-1	
Mass: (5200)		
Mass concentration ranges	PM1, PM2.5, PM4, PM7, PM10, and TSP	
Concentration range	0 to 1000 $\mu g/m^3$	
Sample time	1 minute (2.83 L / min)	
Particle: (5110 & 5200)		
Particle size	**6 channels (5110)**	0.3μm, 0.5μm, 1.0μm, 2.0μm, 5.0μm, 10μm
	8 channels (5200)	0.5μm, 0.7μm, 1.0μm, 2.5μm, 4.0μm, 5.0μm, 7.0μm, 10μm
Counting Efficiency	50% @0.3μm; 100% for particles > 0.45μm (per JIS B9921:1997)	
Sample flow rate	2.83 L / min	
Maximum particle concentration	105,900 particles / L (coincidence loss max. 5%)	
Measurement time	6 s. (0.01CF), 21 s. (1L), 1 min. (0.1 CF, 2.83L), 3 min. 32 s (10L), 10 min. (1 CF, 28.3L), any length (MANUAL), any length (1 s. to 59 min. 59 s.)	
Relative Humidity	±7%, 20% to 90% non-condensing	
Temperature	±3°C, 10°C to 40°C (50°F to 104°F)	
Buffer function	Store and recall values for up to 500 measurements	
PC interface	USB interface	
Temperature / humidity measurable range	10°C to 40°C, 20% to 90%RH (approximate)	
Power requirements	Built-in battery or AC adapter	
Battery	Rechargeable Lithium-ion (Li-ion) battery. Charged from supplied AC adapter when power is ON (charge time 2 hours).	
AC adapter	Output voltage : DC12V, 3A	
Dimensions and weight	212(L) ×120(W) ×60(H)mm / Approx. 930g	
Supplied Accessories	Users manual, AC adapter, USB connector, Carrying case.	

Left device (TES-5110):

TES-5110   2012/11/07 20:55:02

SIZE	COUNTS	Location03
0.3um	0	Time: 00:00:20
0.5um	0	Delay: 00:01:00
1.0um	0	Volume: 0.00CF
2.0um	0	Sample: 0/1
5.0um	0	___°C
10.0um	0	___%RH △

COUNT   SETUP   LABEL

F1   F2   F3

TES 5110
PARTICLE COUNTER

Right device (TES-5200):

TES-5200   2012/11/07 20:55:02

MASS   Location03

PM1	=	0	Time: 00:00:20
PM2.5	=	0	Delay: 00:01:00
PM4	=	0	Volume: 0.00CF
PM7	=	0	Sample: 0/1
PM10	=	0	___°C
TSP	=	0	___%RH △

COUNT   SETUP   LABEL

F1   F2   F3

TES 5200
PARTICLE MASS COUNTER