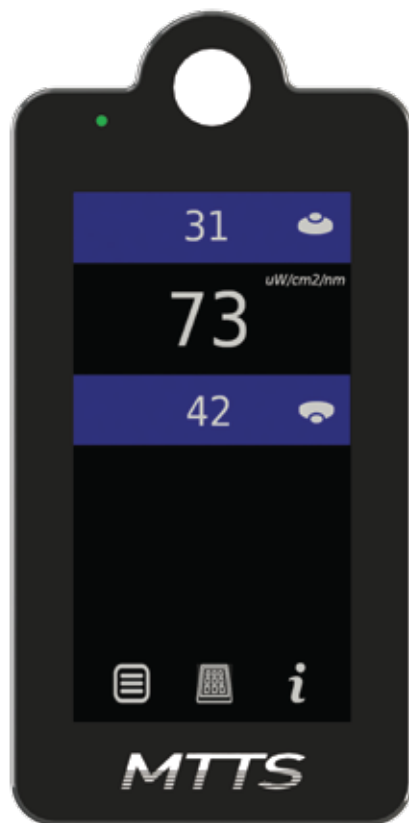


4meter

LifeKit by **MTTS**



4METER

An instrument for determination of the **actual level** of sources required for an effective medical therapy.



Key Functions

1. Blue light irradiance measurement:
 - verify irradiance of photo therapy devices during preventive maintenance and normal use
2. O₂ measurement:
 - verify purity of O₂ sources (tank, generator, wall) during preventive maintenance
 - verify mechanical blender and other blender during preventive maintenance
 - leak search inside device and along external tubes during repair and equipment inspection
3. Pressure measurement:
 - verify pressure at Y connector during use
4. Flow measurement:
 - verify flow output of CPAP, Hi-flow and ventilators during preventive maintenance
5. High pressure measurement:
 - verify hospital gas sources and check them for fluctuations
6. Temperature and humidity measurement:
 - verify the temperature uniformity of the radiant warmers
 - check temperature and humidity inside the incubators



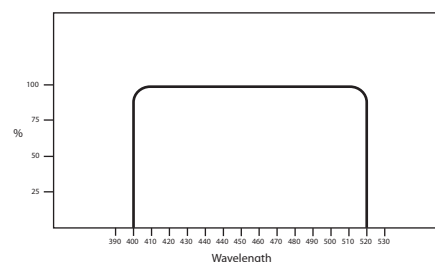
Light Irradiance Sensor

- spectral response chosen to match wavelength used for jaundice treatment
- two sided measurement for convenient measurement of double sided phototherapy devices such as the MTTs Firefly

Displays/Indicators

- touch screen liquid-crystal display (LCD)
- alarms: low battery, system failure, out of measurement
- results 'freeze'
- bandwidth estimator
- absolute and relative irradiance measurement
- multi-point mode

Light Sensor Spectral Response



Dimensions and Weight

Height	148 mm
Width	73 mm
Depth	17 mm
Weight	200 g

Performance Specifications

Application	- LED and blue fluorescent phototherapy light sources; using the lightmeter for halogen phototherapy results in a minor but not considerable error - Various gas sources used for respiratory therapy
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LIGHT SENSOR

Spectral response		400-520nm
Measurement range	single side	0.1 – 150.0 $\mu\text{W}/\text{cm}^2/\text{nm}$
	double side	0.1 – 300.0 $\mu\text{W}/\text{cm}^2/\text{nm}$
Resolution		0.1 $\mu\text{W}/\text{cm}^2/\text{nm}$
Cosine characteristics		$\pm 2\%$ @ 30 degree angle $\pm 7\%$ @ 60 degree angle $\pm 25\%$ @ 80 degree angle
Accuracy		+/- 3% of reading

OXYGEN SENSOR	FiO ₂	21-100%
FLOW SENSOR	flow	0-120 lpm, bi-directional
MANOMETER	pressure	0-100 cm H ₂ O
HIGH PRESSURE SEN.	pressure	± 100 psi
TEMP/HUMIDITY SEN.	temperature	5-60°C
	humidity	0-100% RH

Battery Specification

Type	2xAAA 1.5V Alkaline, Non-rechargeable
Lifetime	Up to 120h operating time
Maximum usage time when fully charged	4 hours

Environmental Specification

Operation Temperature	10°C to 40°C
Storage Temperature	0°C to 50°C
Operation Atmospheric Pressure	70 – 106 kPA
Storage Atmospheric Pressure	70 – 106 kPA
Operation Humidity	30 – 90% RH non condensing
Storage Humidity	5 – 90% RH non condensing
Sealing	IP3X
Drop/Shock	1m onto hard surface, meets or exceeds IEC standards

Standards

ISO 13485:2016
IEC 61010-1:2010
IEC 61326-1:2012

Ordering Information and Servicing

ORDERING INFO	ITEM ORDER NO	
Lightmeter	LM-800	Main Unit
Oxygen meter	LM-800-020	
Flow meter	LM-800-030	
Manometer	LM-800-040	
High pressure meter	LM-800-050	
Temperature/Humidity meter	LM-800-060	
Rechargeable batteries and charger	LM-800-070	
Storage case	LM-800-080	

Calibration	Required	Every 2 years after delivery date; return to MTTs for calibration
Parts		No customer serviceable parts; return to MTTs for service



MEDICAL TECHNOLOGY TRANSFER AND SERVICES Co., LTD
ISO 13485: 2016 Certified Company

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