

# EQUIPMENT

# DETAILS OF ANALYZERS USED FOR CALIBRATION

## INCUBATOR



Electrical Safety Analyzer & Digital Thermometer



IR Thermometer IDEAL 61-685, ESA 612 Electrical Safety Analyser [Generated under Certificate For Single Parameter & Electrical Safety]

Functional Test Parameters

Warm up Time, Air Temperature Accuracy, Skin Temperature Accuracy, Temperature overshoot, Relative Humidity, High Temperature Protection, Air Flow, Noise Level

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## AUTOCLAVE



Digital Thermometer & Pressure Calibrator



One Autoclave may have number of pressure Gauges & Temperature Indicator

## DEFIBRILLATOR



Electrical Safety Analyzer & Defibrillator Analyzer



ESA 612 Electrical Safety Analyser, FLUKE Impulse 7000DP [Generated under Certificate & Caldata under Defibrillator, Defib AED Pace & Electrical Safety]

Functional Test Parameters

Heart Rate Accuracy, Output Accuracy, Output Accuracy Multiple, Output Energy at Max setting for 10 chg cycle, Charge time after 10 discharge cycles, Energy after 60sec of full charge, Synchronizer Operation, Pacer output Accuracy, Pacer rate

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## SUCTION PUMP



Electrical Safety Analyzer & Defibrillator Analyzer



FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate For Single Parameter & Electrical Safety]

Functional Test Parameters

Flow Rate

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

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## FLOW METER WITH HUMIDIFIER



Electrical Safety Analyzer,  
Gas Flow analyzer, Digital Thermometer



FLUKE VT Mobile Gas Flow Analyser  
[Generated under Certificate For Single Parameter & Electrical Safety]

Functional Test Parameters

Flow Rate

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## BP APPARATUS (Sphygmomanometer)



NIBP Simulator, if it is electrical operated, then Electrical Safety Analyzer is also required



Fluke Prosim 8, ESA 612 Electrical Safety Analyser  
[Generated under Certificate For Single Parameter & Electrical Safety]

Electrical Safety Parameters

Pressure Test, Leak Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## ECG UNIT



Electrical Safety Analyzer & ECG Simulator



Fluke Prosim 8, ESA 612 Electrical Safety Analyser  
[Generated under Certificate & Caldata under ECG & Electrical Safety]

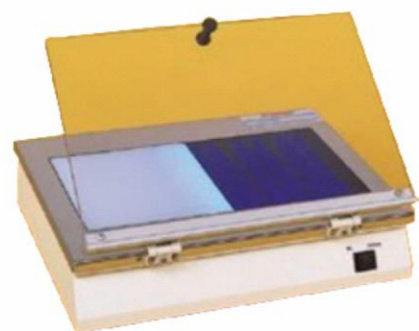
Functional Test Parameters

Heart Rate Accuracy, ECG Waveform Simulation

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## TRANS ILLUMINATOR LIGHT SOURCE



Electrical Safety Analyzer & LUX Meter



IDEAL Light Meter 61-686, ESA 612 Electrical Safety Analyser  
[Generated under Certificate For OT Light & Electrical Safety]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

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# DETAILS OF ANALYZERS USED FOR CALIBRATION

## RADIANT WARMER



### Electrical Safety Analyzer & Radiant Warmer Analyzer



ESA 612 Electrical Safety Analyser, IR Thermometer IDEAL 61-685  
[Generated under Certificate For Single Parameter & Electrical Safety]

Functional Test Parameters

Temperature Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## PHOTOTHERAPY



### Electrical Safety Analyzer, Irradiance meter



ESA 612 Electrical Safety Analyser, DALE 40  
[Generated under Certificate For Phototherapy & Electrical Safety]

Functional Test Parameters

Volume Accuracy, Oxygen Accuracy

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## PULSE OXYMETER



### Electrical Safety Analyser & Pulse Oximeter Simulator



ESA 612 Electrical Safety Analyser, FLUKE Spot Light  
[Generated under Certificate & Caldata under Pulseoximeter & Electrical Safety]

Functional Test Parameters

Heart Rate Accuracy, O2 Saturation

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## WEIGHING SCALES (BABY)



### Weights



ESA 612 Electrical Safety Analyser [Electrical Safety is generated]

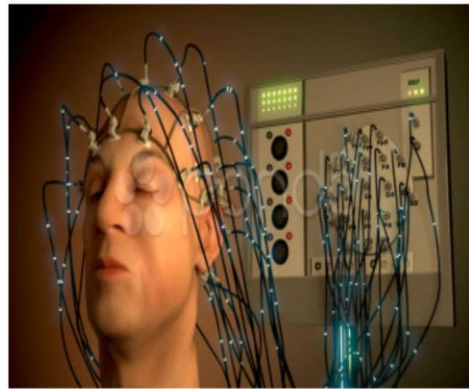
Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

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# DETAILS OF ANALYZERS USED FOR CALIBRATION

## EEG



Multi parameter simulator, Electrical safety analyzer



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate & Caldata under Ventilator or Anesthesia & Electrical Safety]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Electro Surgical Unit/  
Diathermy Machine/  
Cautery Machine.



Pace Maker Analyzer



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate For Single Parameter ( Parameter Flow in l/min ) & Electrical Safety]

Functional Test Parameters

Power Test for Monopolar Cut, Power Test for Monopolar Coagulation, Power test for Bipolar, Current Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## Patient Monitors



Fetal Simulator with Mechanical Fetal Heart.



ESA 612 Electrical Safety Analyser, FLUKE IDA-1S [Generated under Certificate & Caldata under Syringe pump & Electrical Safety]

Functional Test Parameters

Heart Rate Accuracy, Respiration Rate Accuracy, NIBP Leak Test, NIBP Static Pressure Accuracy, NIBP Pressure Relief Test, Dynamic Nibp Pressure Repeatability, SpO2 Accuracy, Invasive Pressure Accuracy Current

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

## Apnea Monitors



Multi parameter simulator, Electrical safety analyzer



ESA 612 Electrical Safety Analyser, FLUKE IDA-1S [Generated under Certificate & Caldata under Syringe pump & Electrical Safety]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

EQUIPMENT

DETAILS OF ANALYZERS USED FOR CALIBRATION

External Pace Maker



Pace Maker Analyzer



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate & Caldata under Ventilator or Anesthesia & Electrical Safety]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Fetal Monitor



Pace Maker Analyzer



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate For Single Parameter ( Parameter Flow in l/min ) & Electrical Safety]

Functional Test Parameters

Power Test for Monopolar Cut, Power Test for Monopolar Coagulation, Power test for Bipolar, Current Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Patient Monitors



Fetal Simulator with Mechanical Fetal Heart.



ESA 612 Electrical Safety Analyser, FLUKE IDA-1S [Generated under Certificate & Caldata under Syringe pump & Electrical Safety]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Fetal Doppler



ESA 612 Electrical Safety Analyser



[Electrical Safety is generated.]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

# EQUIPMENT

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Infant Incubator



Electrical Safety Test & infant Incubator Analyzer.



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate & Caldata under Ventilator or Anesthesia & Electrical Safety]

Functional Test Parameters

Temperature Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Electronic Tourniquet



Electrical safety analyzer, pressure analyzer, stop watch



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate For Single Parameter ( Parameter Flow in l/min ) & Electrical Safety]

Functional Test Parameters

Pressure Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Therapeutic Ultrasound Machine



Electrical Safety Analyzer, Ultrasound watt meter, stop watch



ESA 612 Electrical Safety Analyser

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Feat Doppler



ESA 612 Electrical Safety Analyser



FLUKE VT Mobile Gas Flow Analyser [Generated under Certificate For Single Parameter ( Parameter Flow in l/min )]

Functional Test Parameters

Comtinuous Flow Rate

# EQUIPMENT

# DETAILS OF ANALYZERS USED FOR CALIBRATION

Infant Incubator



Electrical Safety Analyzer, Dialysis Reference meter, Temperature data logger, Pressure data logger



ESA 612 Electrical Safety Analyser  
[ Electrical Safety is generated.]

Functional Test Parameters

Conductivity Test, Flow Test, PH Test, Temperature Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Heart Lung Machine



ESA 612 Electrical Safety Analyser



ESA 612 Electrical Safety Analyser  
[Electrical Safety is generated.]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Patient Warmer



ESA 612 Electrical Safety Analyser, IR Thermometer IDEAL 61-685



ESA 612 Electrical Safety Analyser, IR Thermometer IDEAL 61-685

Functional Test Parameters

Temperature Test

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

OT Table



Electrical Safety Analyzer



FLUKE VT Mobile Gas Flow Analyser  
[Generated under Certificate For Single Parameter ( Parameter Flow in l/min )

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

# EQUIPMENT

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OT Light



Lux meter



IDEAL Light Meter 61-686  
[Generated under Certificate For OT Light & Electrical Safety]

Functional Test Parameters

Light Intensity Test

Electronic / Mechanical Patient Bed



Electrical safety analyser



ESA 612 Electrical Safety Analyser  
[Electrical Safety is generated.]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

CPM Machine



Electrical safety analyzer, angle measuring device



ESA 612 Electrical Safety Analyser  
[Electrical Safety is generated.]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Therapeutic Stimulator



Electrical safety analyzer, wave form analyser



FLUKE VT Mobile Gas Flow Analyser  
[Generated under Certificate For Single Parameter ( Parameter Flow in l/min )]

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current



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Enteral Feeding Pump



Lux meter



ESA 612 Electrical Safety Analyser, FLUKE IDA-1S  
[Generated under Certificate & Caldata under Syriangepump & Electrical Safety]

Functional Test Parameters

Flow Rate Accuracy, Volume Accuracy, Occlusion Detection Pressure Current

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

CPAP



Electrical safety analyser



ESA 612 Electrical Safety Analyser  
[Electrical Safety is generated.]

Functional Test Parameters

Volume Accuracy, Respiration Rate Accuracy, I:E Ratio, Pressure Accuracy, PEEP, Oxygen Accuracy

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

BiPAP



Gas flow analyzer with test lung, electrical safety test



ESA 612 Electrical Safety Analyser  
[Electrical Safety is generated.]

Functional Test Parameters

Volume Accuracy, Respiration Rate Accuracy, I:E Ratio, Pressure Accuracy, PEEP, Oxygen Accuracy

Electrical Safety Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current

Anesthesia Machine



Electrical Safety Analyzer & Gas Flow analyzer



ESA 612 Electrical Safety Analyser, FLUKE VT Mobile Gas Flow Analyser  
[Generated under Certificate & Caldata under Ventilator or Anesthesia & Electrical Safety]

Functional Test Parameters

Volume Accuracy, Respiration Rate Accuracy, I:E Ratio, Pressure Accuracy, PEEP, Oxygen Accuracy

Functional Test Parameters

Voltage between Live & Neutral, Voltage between Live & Earth, Voltage between Neutral & Earth, Enclosure Current, Leakage Current, Patient Leakage Current