

EQUIPMENT START-UP CHECKLIST

Initial run of an equipment after a long break (shutdown) may occasionally become hurdle and affecting the production up time. A proper checkup are essential as any defects or wrong alignment can be identify earlier and be fix before it's break. Thus, this document serves as a basic step-by-step guide for checking-up the equipment before it's ready for initial startup. Before starts any intervention works, please ensure that the work environment is safe for work to be perform.

Check Point	Description	Findings		Remarks
		Good	NG	
Power Adapter	Is the power adapter cables in good condition?			A healthy cable will avoid chance of AC electrocution.
Housing/Display/Keypad	Is the protective cover is dry & free of debris and stains?			Protective cover can prevent moisture penetration to keypad & touchscreen
External Connectors	Is the connector of the real panel is free of debris?			Connectors need to be clean to prevent the sensor pin is fracture
Burette & Burette Drive	Make sure no leakage, no air bubble and clog inside the tubing and no blocking of siphon tips			To make sure the volume dispense is correct and accurate
Burette & Burette Drive	Monitor the movement of the piston rod and stopcock drive			The piston an stopcock drive should able to move smoothly
Sensors & Accessories	Check sensor condition			Replaced if in bad condition as sensors condition effects results
Functionality Test (Terminal)	Is the display, keypad & touchscreen function good?			Functionality test features can be found under the system menu. (Refer to manual)
Functionality Test (Solvent Pump & Stirrer)	Manually operate the pump solvent manager & stirrer. (ONE CLICK shortcut key at display)			ONE CLICK shortcut key at display.
Functionality Test (Sensor)	Start ISM Sensor self-detection feature			If NG please check the connection and retry, if fail please replace a new Sensor
Functionality Test (Self diagnostics)	Start the Burette self-detection built in feature. Please adjust the piston level by using Burette holder.			If NG please check if Burette is fitted correctly and retry, if fail please replace a new Burette
Routine Test	Calibrate /Measure the performance of the electrode in used.			Calibrate by using fresh pH buffers solution or any recommended substance
Operation preparation	Is an accredited calibration certificate required in your SOP or have the calibration scheduled lapsed?			Routine test and calibration certification should meet the manufacturer's & customer specifications and for audits

Routine Test procedures are available upon request.

For onsite assistance or technical enquiries, you may contact us for required support

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Power Adapter	Is the power adapter cables in good condition?			A healthy cable will avoid chance of AC electrocution.
Housing/Display/Keypad	Is the protective cover is dry & free of debris and stains?			Protective cover can prevent moisture penetration to keypad & touchscreen
External Connectors	Is the connector of the real panel is free of debris?			Connectors need to be clean to prevent the sensor pin is fracture
Sensors & Accessories	Has grease been apply on the surface of inlet hole of the beaker?			Grease is needed for improve vacuum to eliminate air penetration into the beaker
Sensors & Accessories	Is the two pins of DM143-SC sensor touching each other?			To prevent erroneous result, use finger & apply a little strength to separate the pins.
Sensors & Accessories	Is the burette system free of titrant crystallization or clogged?			If no then cleaning process for stopcock, tubing & tips required
Functionality Test (Terminal)	Is the display, keypad & touchscreen function good?			Functionality test features can be found under the system menu. (Refer to manual)
Functionality Test (Solvent Pump & Stirrer)	Manually operate the pump solvent manager & stirrer. (ONE CLICK shortcut key at display)			ONE CLICK shortcut key at display.
Functionality Test (Sensor)	Start ISM Sensor self-detection feature			If NG please check the connection and retry, if fail please replace a new Sensor
Functionality Test (Self diagnostics)	Start the Burette self-detection built in feature. Please adjust the piston level by using Burette holder.			If NG please check if Burette is fitted correctly and retry, if fail please replace a new Burette
Routine Test preparation	Certified and fresh Is the solvent and 1% water standard available?			Certified, fresh solvent & water standard is required to ensure accuracy of test
Operation preparation	Is an accredited calibration certificate required in your SOP or have the calibration scheduled lapsed?			Routine test and calibration certification should meet the manufacturer's & customer specifications and for audits

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Power Adapter	Is the power adapter cables in good condition?			A healthy cable will avoid chance of AC electrocution.
Housing/Display/Keypad	Is the protective cover is dry & free of debris and stains?			Protective cover can prevent the moisture penetration & keypad short & touchscreen problem.
Housing/Display/Keypad	Is the display, keypad & touchscreen function good?			Functionality test features can be found under the system menu. (Refer to manual)
External Connectors	Is the connector of the real panel is free of debris?			Connectors need to be clean to prevent the sensor pin is fracture.
Sensors & Accessories	Is the septum is install correctly? Is grease applied on the surface of inlet hole of the beaker?			Septum & grease is needed for improve vacuum to eliminate air is penetration into the beaker.
Sensors & Accessories	Is the two pins of DM143-SC sensor touching each other?			To prevent erroneous result, use finger & apply a little strength to separate the pins.
Sensors & Accessories	Diaphragm and generator electrode looks visually good condition?			Color solvent maintain when diaphragm break. Error prompt out when abnormality detected
Functionality Test	Start ISM Sensor self-detection feature			If NG please check the connection and retry, if fail please replace a new Sensor
Functionality Test (Self diagnostics)	Start ISM Sensor self-detection feature			If NG please check the connection and retry, if fail please replace a new Sensor
Routine Test preparation	Certified and fresh Is the solvent and 0.1% water standard available?			Certified, fresh solvent & water standard is required to ensure accuracy of test
Operation preparation	Is an accredited calibration certificate required in your SOP or have the calibration scheduled lapsed?			Routine test and calibration certification should meet the manufacturer's & customer specifications and for audits

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