

**Installation Prerequisites for Microcontroller Based Flame Photometer
(With 21 CFR Part-11 Compliance)****Model: μ FlameCal100 | Make: ANALAB****➤ Environment Conditions:**

The Instrument can operate within temperature and relative humidity conditions of 0 °C to 55°C and 5 to 95 % respectively. However, an environment comfortable for human habitation (reasonable constant temperature and humidity conditions) is recommended for optimum performance and instrument lifetime.

Exposure to corrosive substances (whether gas, liquid or solid) may affect materials and components used in the instrument and should be avoided.

➤ Power Supply Requirements:

- 1) Stabilized Power supply 230 VAC $\pm$ 10 %, 50Hz
(Earthing voltage should be **Less than 3V AC** - between Earthing & Neutral)
- 2) Three 5 Amp. points required for the Main unit, One for Air Supply Unit and Printer

➤ Chemicals and Accessories Required:

- 1) LPG Gas Cylinder with a suitable gas regulator
- 2) HPLC grade / double distilled water - 5 Liter
- 3) Analytical Balance (with 0.1 mg accuracy)
- 4) Volumetric flask - 100 ml capacity - 05 Nos. per element
- 5) Calibrated Pipettes - 10 ml capacity - 01 No.
- 6) Tissue paper
- 7) 40 / 80 Column Dot Matrix Serial Printer (if report printing is required)
- 8) Windows based PC for "ANALABsafe" software. (if PC connectivity is required)
(Software supports Windows 7 or above OS, 32 / 64 bit with internet facility to download ANALABsafe software and driver online)

➤ Chemicals Require for Calibration:

- 1) AR grade Sodium Chloride (NaCl) - 100 grams for Sodium
- 2) AR grade Potassium Chloride (KCL) - 100 grams for Potassium
- 3) AR grade Calcium Carbonate (CaCo3) - 100 grams for Calcium
- 4) AR grade Lithium Carbonate (Li2Co3) - 100 grams for Lithium
- 5) Hydrochloric Acid (HCL) - 50 ml (for only for calcium analyses)