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Flame Photometer

RS-PSI 1601

DESCRIPTION:

Digital Flame Photometer – 381 is a simple & easy to operate instrument for determination of Sodium, Potassium, Calcium & Lithium. It is an ideal instrument for soil testing labs.

The instruments are supplied in two units viz. Main Unit and Compressor Unit. The Main Unit comprises of digital displays, detector, filters and nebulizer. The compressor unit supplies the compressed air to the main unit.

Air at a given pressure is passed into the atomiser. The suction produced by it, draws the sample solution into the nebulizer and is sprayed as fine mist into the flame. The light emitted by the element at the characteristic wavelength is isolated by the narrow band interference filters, which then falls on to the silicon photodiode. After signal conditioning of the photodiode output, it is sent to digital converter and the results are displayed directly in ppm/meq units. The narrow band interference filters are mounted on a rotating disc fitted within the Main Unit. Appropriate filter can be selected by rotating this disc with the thumb. The oil free compressor with regulator maintains a stable airflow.



FEATURES:

1. Simple & Easy to Operate
2. Narrow Band Interference Filters
3. Accurate Na, K, Ca, & Li Determination
4. Mixing Chamber Designed For Stable Flame
5. Concentric Non-Corrosive Nebulizer
6. Auto Ignition

TECHNICAL SPECIFICATIONS:

Compressor Unit

Air Supply : By oil free mini compressor unit with pressure regulator with load and over heating protection

Combustion Gas LPG : Controlled by precision regulator (Domestic Gas Cylinder)

Power : 230 V±10% AC, 50 Hz

Dimensions (LxWxH) : 290X255X210 mm (Approx.)

Weight : 8 Kgs. (Approx.)

Accessories

Operation & Service Manual : **2 Nos**

Fuse : **1 No**

Ignition Filament : **1 No**

Capillary Tube Set : **1 Set**

Cleaning Wire Set : **1 Set**

Dust Protection Cover : **1 Set**

Model	381
Range	Na : 0-100 ppm K : 0-100 ppm Ca : 15-100 ppm (Optional) Li : 10-100 ppm (optional)
Sensitivity	Na : 0-100 ppm K : 0-100 ppm Ca : 15-100 ppm (Optional) Li : 10-100 ppm (optional)
ReadOut	2½ Digit Bright Red LED Display
Accuracy	± 2% upto 40 ppm ± 5% above 40 ppm
Ignition System	In-built electronic Ignition by press of a switch
Dimensions (LxWxH)	375X245X220 mm (Approx.)
Measurement System	One element at a time
Repeatability	± 2 Counts
Detector	Silicon Photodiode
Filters	Narrow Band interference glass filters (Na & K)
Atomiser	S.S. non-corrosive & easily accessible, Black bakelite axial flow type
Flame System	LPC & dry oil free air
Warm Up Time	10 minutes
Power	230 V±10% AC, 50 Hz
Weight	Main Unit : 7.5 Kgs (Approx.) Compressor : 8 Kgs (Approx.)

Rugged & accurate instrument to determine concentration of Na, K, Ca & Li in any solution.



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