



# Flame Photo Meter CL 410 & CL 411



**CHEMILINE Flame Photo Meter CL 410 & CL 411** is ideally suitable for detecting the element such as sodium (Na), potassium (K), calcium (Ca) and lithium (Li)

**Principle**

The fluid under analysis is sprayed as a fine mist in to a non luminous flame which becomes colored accordingly to the characteristic omission of the elements. This flame is viewed through a narrow band filter the detector o/p is connected to electronic circuit and to digital display. Which is directly calibrated in ppm.

**System**

The fluid under analysis consist of two unit

1. Main unit includes burner and display
2. Compressor unit

The main unit consist of atomizer, mixing chamber, burner, optical filter, detector, digital display, gas regulator etc. and the compressor unit consist of air pressure gauge and air regulator delivers oil free compressed air to the atomiser of main unit.



**• Specifications CL 410**

| Element         | Max Ppm  | Min Ppm |
|-----------------|--|---------|
| Sodium          | 100  | 2       |
| Pottasium       | 100  | 1       |
| Calcium         | 300  | 30      |
| Lithium         | 25   | 2       |
| Reproducibility | + 2% & + 1 Digit   |         |
| Min Sample      | 3 ml   |         |
| Detector        | Photo Diode  |         |
| Filters         | Narrow Band Optical Filters<br>Na, K Standard Filter<br>Ca, li Optional Filter |         |
| Aspiration Time | 30 Sec Approx  |         |
| Gas             | (to Be Arranged By End User)<br>Lpg Gas With Sufficient Pressure               |         |
| Power           | 230 V + 10 %   |         |
| Accessories     | Standard   |         |
|                 | (1) Sampling Beakers<br>(2) Instruction Manual<br>(3) Dust Cover               |         |
| Optional        | Ca & Li Filters  |         |

With sodium (Na) & pottasium (K)filters with min 2 to max 5 standards calibration. Direct reading in ppm mode ,auto filter selection 20\*4 digit lod display, four element with single aspiration, it is supplied with compressor and lithium (Li) & calcium (Ca) as a optional filter

**• Specifications CL 411**

| Element           | Max ppm   | Min ppm |
|-------------------|---|---------|
| Sodium            | 100   | 2       |
| Pottasium         | 100   | 1       |
| Calcium(optional) | 300   | 30      |
| Lithium(optional) | 25  | 2       |
| Display           | 20*4 LCD  |         |
| Reproducibility   | + 2% & + 1 Digit  |         |
| Min Sample        | 5 ML  |         |
| Detector          | Photo Diode   |         |
| Filters           | Narrow Band Optical Filters, Na, K Standard Filter, Ca & Li Optional Filter |         |
| Aspiration Time   | 30 Sec Approx   |         |
| Air Pressure      | 0.3 To 0.6 Kg/cm <sup>2</sup>   |         |

CL 411



**Labline Technologies Pvt. Ltd.**