Flame Photometer - Touch Screen Flame Photometer for K Na Li Ca Ba - 7-inch Display - <8 s Response

Model **MSFP-I6450SWISS, MSFP-I6440SWISS, MSFP-I6431SWISS, MSFP-I6430SWISS, MSFP-I6410SWISS, MSFP-I640SWISS** | Brand **Master Science**





The Master Science Flame Photometer is a series of six instruments for determining alkali and alkaline-earth metals by flame emission. Depending on the model, it measures two to five elements from potassium, sodium, lithium, calcium and barium.

KEY HIGHLIGHTS

- Simple start-up
- Safe burner
- Fast readings
- Ready-made calibration
- Complete package

AT A GLANCE

K 0.15-100; Na 0.18-100; Li 0.1-30; Ca 0-1000; Ba 0.1-300
RANGE (PPM)

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Operation is through a 7-inch colour touch screen with push-button ignition. The burner runs on LPG with air from the supplied compressor, flame size can be pre-selected, and a protection device acts if the flame goes out.

> For trace metals at lower levels, see the Master Science atomic absorption spectrophotometer.

Overview

- Push-button ignition
- Pre-selection of flame size
- Pressure gauge on the front panel

Key Benefits

Simple start-up
the Master Science Flame Photometer lights with one button.

Safe burner
flameout protection device.

Fast readings
response in under 8 seconds.

Ready-made calibration
correlation coefficient calculated automatically on concentration models.

Complete package
air compressor supplied.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSFP-I6450SWISS, MSFP-I6440SWISS, MSFP-I6431SWISS, MSFP-I6430SWISS, MSFP-I6410SWISS, MSFP-I640SWISS
SKU	MSFP-I6450SWISS, MSFP-I6440SWISS, MSFP-I6431SWISS, MSFP-I6430SWISS, MSFP-I6410SWISS, MSFP-I640SWISS
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SKU	MSFP-I6450SWISS, MSFP-I6440SWISS, MSFP-I6431SWISS, MSFP-I6430SWISS, MSFP-I6410SWISS, MSFP-I640SWISS
Elements, MSFP-I6450SWISS	K, Na, Li, Ca, Ba
Elements, MSFP-I6440SWISS	K, Na, Li, Ca
Elements, MSFP-I6431SWISS	K, Na, Ca
Elements, MSFP-I6430SWISS	K, Na, Li
Elements, MSFP-I6410SWISS and MSFP-I640SWISS	K, Na
Range (ppm)	**K 0.15-100; Na 0.18-100; Li 0.1-30; Ca 0-1000; Ba 0.1-300**
Limit of Detection (ppm)	K ≤0.156; Na ≤0.184; Li ≤0.1035; Ca ≤2; Ba ≤6.028
Linear Error	K ≤0.195; Na ≤0.69; Li ≤0.1449; Ca ≤3; Ba ≤9.402
Operation	7-inch colour touch screen
Response Time	<8 s
Sample Uptake	<3 mL/min
Stability	<3% (15 s); ≤15% (6 min)
Reproducibility	≤2%
Fuel	LPG
Power	AC 220 V ±10%, 50 Hz ±1 Hz, 30 W

DISPLAY & DATA

Displayed Value	Concentration (optical power on MSFP-I640SWISS)
Memory	20 standard curves and 20 sets of test data

DIMENSIONS & WEIGHT	
Package Dimensions	570 × 530 × 400 mm
Gross Weight	18 kg

HOW THE MASTER SCIENCE FLAME PHOTOMETER EASES FLAME EMISSION ANALYSIS	
Difficult manual ignition	push-button start.
Gas flowing after the flame dies	flameout protection.
Hand-drawn calibration curves	stored curves with automatic correlation coefficient.
Paying for elements never measured	six models from two to five elements.

Applications

The Master Science Flame Photometer is used for
Potassium and sodium determination Lithium, calcium and barium determination on the corresponding models Routine element analysis of liquid samples

Operation

- 7-inch colour touch screen
- Multilingual user interface
- Selectable concentration units
- Measuring range changing

Data

- Direct concentration display and curve graph (not on MSFP-I640SWISS)
- USB output (not on MSFP-I640SWISS)
- Storage of standard curves and test data

Standard Accessories Included

- Air compressor

Optional Accessories

- Built-in thermal printer (not for MSFP-I640SWISS)