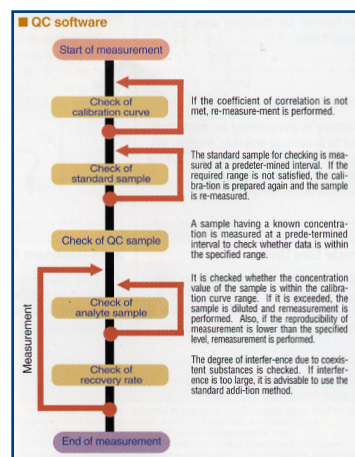
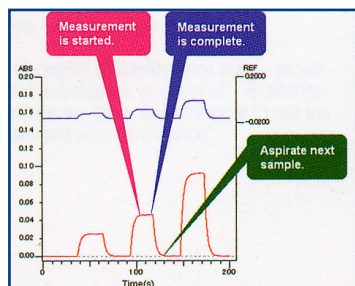
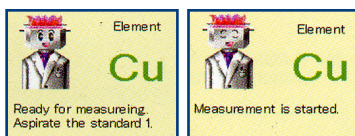


12 Reasons to Choose a Hitachi/Leeman Z-2000 AA



Z-2000 Leading the Industry in Analytical Performance

1 Easy to Learn, Easy to Use

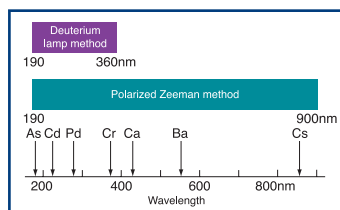


- Analysis Assist**
 Provides expert intelligence to help develop new methods, optimize conditions, and run analysis sequences.
- Easy Start**
 Automatically starts data collection after the signal has stabilized.
- Real Time QC**
 Asks for programmed quality control samples even in manual analyses/mode.
- Audio Prompts**
 Guide the analyst through each step of the analysis.

2 Simultaneous Zeeman Correction for Superior Analytical Performance

Simultaneous Zeeman Correction delivers low noise and superior stability for both flame and furnace atomization. With the innovative optical design of the Z-2000, measurement of signal and background occur simultaneously, eliminating co-incident noise and transient errors - the end result is superior analytical performance.

3 Superior Background Correction at all Wavelengths



Zeeman correction is applicable to all wavelengths from 189-900 nm while deuterium correction is limited to wavelengths from 189 – 360 nm. Now, accurate background correction is available for alkali and alkaline earth elements - giving superior analytical performance across the range of elements. Unlike deuterium correction which depends on accurate alignment of two separate light paths, the Z-2000 Zeeman correction employs a single hollow cathode lamp source that is always aligned.

Why choose a Z-2000 AA from Teledyne Leeman Labs?

Analytical Performance

Ease of Use

Superior Background Correction

Integrated Autosampler

Automation

Fast Warm-up

Baseline Stability

Safety Features

Innovation and Reliability

4 No Atomizer Alignment

With the Z-2000 both atomizers are always in alignment in the optical path. You never have to waste your valuable time tweaking atomizer alignment.

5 Integrated Autosampler

The furnace autosampler is built into the spectrometer and provides direct access to the furnace cuvette rather than blocking it. Changing graphite cuvettes no longer requires removal and re-alignment of the autosampler. High capacity sample racks are also available.



6 Automated Flame Set-up

Optimum flame conditions for each element are provided in the instrument library. Flame ignition is automatic. After ignition, stored conditions are established.

7 Automatic Setup of the Analytical Conditions

The Z-2000 is equipped with a library of instrument conditions for all elements. Creating a new method automatically inserts the optimal conditions for each element. At the start of analysis, the Z-2000 optimizes each instrument parameter.

8 Fast Warm up

With some flame atomization systems, optimization and warm-up can take longer than the sample analysis. Not with the Z-2000! Atomizers are always in place and aligned. The flame burner is water-cooled for instantaneous equilibration. Zeeman correction compensates for lamp drift during warm-up.

9 Baseline Stability with Organic Solvents

Most organic solvents used in flame analysis act as fuels changing the flame stoichiometry, which appears as background and shifts the baseline.

10 Graphite Cuvette Selection

A variety of cuvette designs are available including cup design for biologicals, delayed atomization, and platform cuvettes.

11 Alternate Gas Option

The use of an alternate gas, programmable for any heating state, is available as an option. Common applications employing alternate gas supply are oxygen to ash organic samples such as biological fluids and hydrogen (5% in argon) when using palladium as a matrix modifier.

12 Safety Features

To ensure safe operation of the spectrometer, the following safety features are provided:

- Burner type
- Oxidant pressure
- Fuel pressure
- Coolant flow
- Flame sensor
- Drain liquid fill
- Flashback shock absorption
- Safe shutdown on power failure

13 Leeman Innovation – Hitachi Reliability

The Leeman/Hitachi spectroscopy partnership will provide analytical instrument users innovative products with an unyielding commitment to quality and reliability.

**Why Settle for any AA
Go with a Z-2000.**



TELEDYNE LEEMAN LABS
A Teledyne Technologies Company

6 Wentworth Drive
Hudson, NH 03051 U.S.A.
Tel: 603.886.8400
Fax: 603.886.9141
Email: LeemanLabsinfo@Teledyne.com
www.leemanlabs.com