

# Kemio

A Palintest Product

The next  
generation  
measurement  
platform



# Introducing Kemio, the next generation digital test kit



## Truly simple operation

No training or chemistry knowledge required

## Full traceability of results

Test results automatically stored in the instrument

## Rapid and reliable testing onsite

Complete confidence in your test results

# How does it work?

Kemio is powered by patented, single-use sensors which generate an electrical current by reacting with the chemical or metal in the water sample. Kemio measures this electrical signal to determine the concentration of chemical or heavy metal within the sample.

The simple test method minimises potential user errors to ensure repeatable and reliable results



Scan the sensor



Insert the sensor

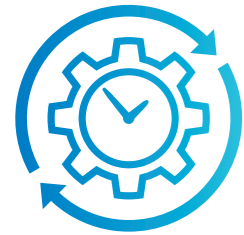


Fill the sample vessel



Close the lid. The measurement begins automatically

# Kemio helps to improve...



## Efficiency

- Rapid testing at the point of use
- Reduced time and labour
- No laboratory testing required



## Traceability

- All results automatically stored in the instrument
- Reduce admin errors in paper recording
- Show automatic pass or fail results



## Health and safety

- No glassware
- No harsh chemicals
- Improved product safety

# Why choose Kemio technology?



## Suitable for all users

- On screen instructions to guide users
- In-built dilution calculations
- No variability between users



## Suitable for all sample types

- Not affected by coloured samples
- Not affected by turbidity or floating particles



## Manage your data

- Fully auditable data log with complete test information
- Export your data log to a PC via USB
- Avoid processing errors with paperless recording

# Advantages of Kemio Technology



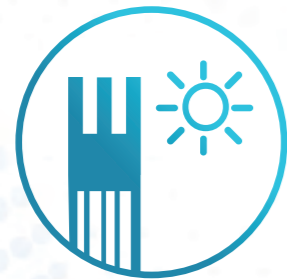
Clear pass/fail results. No calculations required.



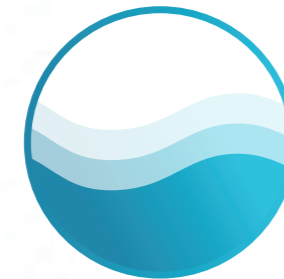
Digital data log, ideal for audits.



No glassware.



Electronic measurement not affected by ambient light.



Not affected by colour.



Not affected by turbidity or floating particles.

## Benefits of Kemio Technology

### Remove admin errors with automatically stored data

Automatically logging all test results, the integrated data log summarises 10,000 results to provide a traceable, auditable dataset.

### Laboratory quality results without lab technicians

Kemio is suitable for all users, with no training required. With on-screen visual instructions, Kemio can be used by anyone straight out of the box.

### Drive corrective action with rapid results

Add your own test limits to see pass and fail results which enable clear action for the operator.

## What our customers say about Kemio:

*"I like the simplicity of the Kemio meter as well as the lack of waste."*

Chemist,  
Utilities Authority

*"The unit is easy to use, easy to train on, and is intuitive."*

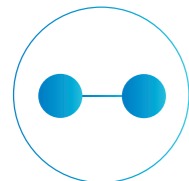
Compliance and Innovation Manager,  
Major Fresh Produce Supplier

# Kemio™ Disinfection

Expert testing for critical disinfection parameters

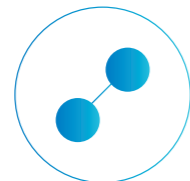
Results in  
**60**  
SECONDS

Testing for:



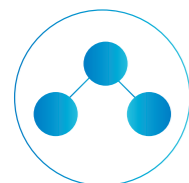
**Bromine**

0.2 - 10 mg/L



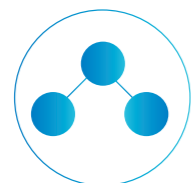
**Chlorine**

0.02 - 100 mg/L (Free)  
0.02 - 500 mg/L (Total)



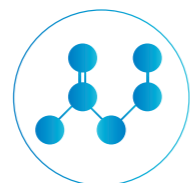
**Chlorine Dioxide**

0.02 - 50 mg/L



**Chlorite**

0.02 - 50 mg/L



**Peracetic Acid**

0.02 - 4000 mg/L



## Ordering information:



### Kemio™ Disinfection Benchtop Kit

KEMR10DIS

Contains instrument, check standards, micro USB, international adaptor, stylus, and quick start instructions, all in a recyclable container.

\*Sensors ordered separately



### Kemio™ Disinfection Soft Case Kit

KEMS10DIS

Contains instrument, check standards, micro USB, international adaptor, stylus, quick start instructions and additional protective carry case.

\*Sensors ordered separately



### Kemio™ Disinfection Hard Case Kit

KEMH10DIS

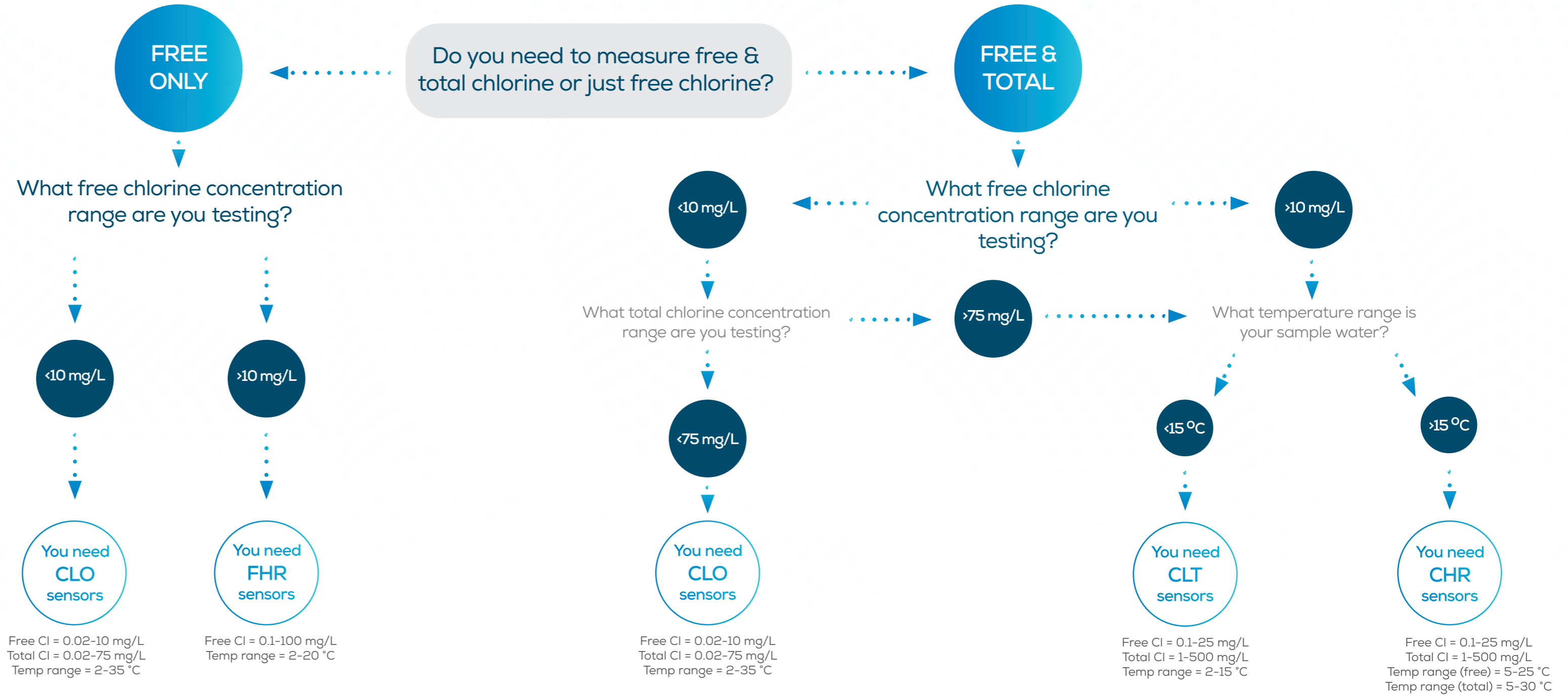
Contains instrument and all accessories for chlorite test. Includes 200 CDX sensors and 100 CLO sensors.

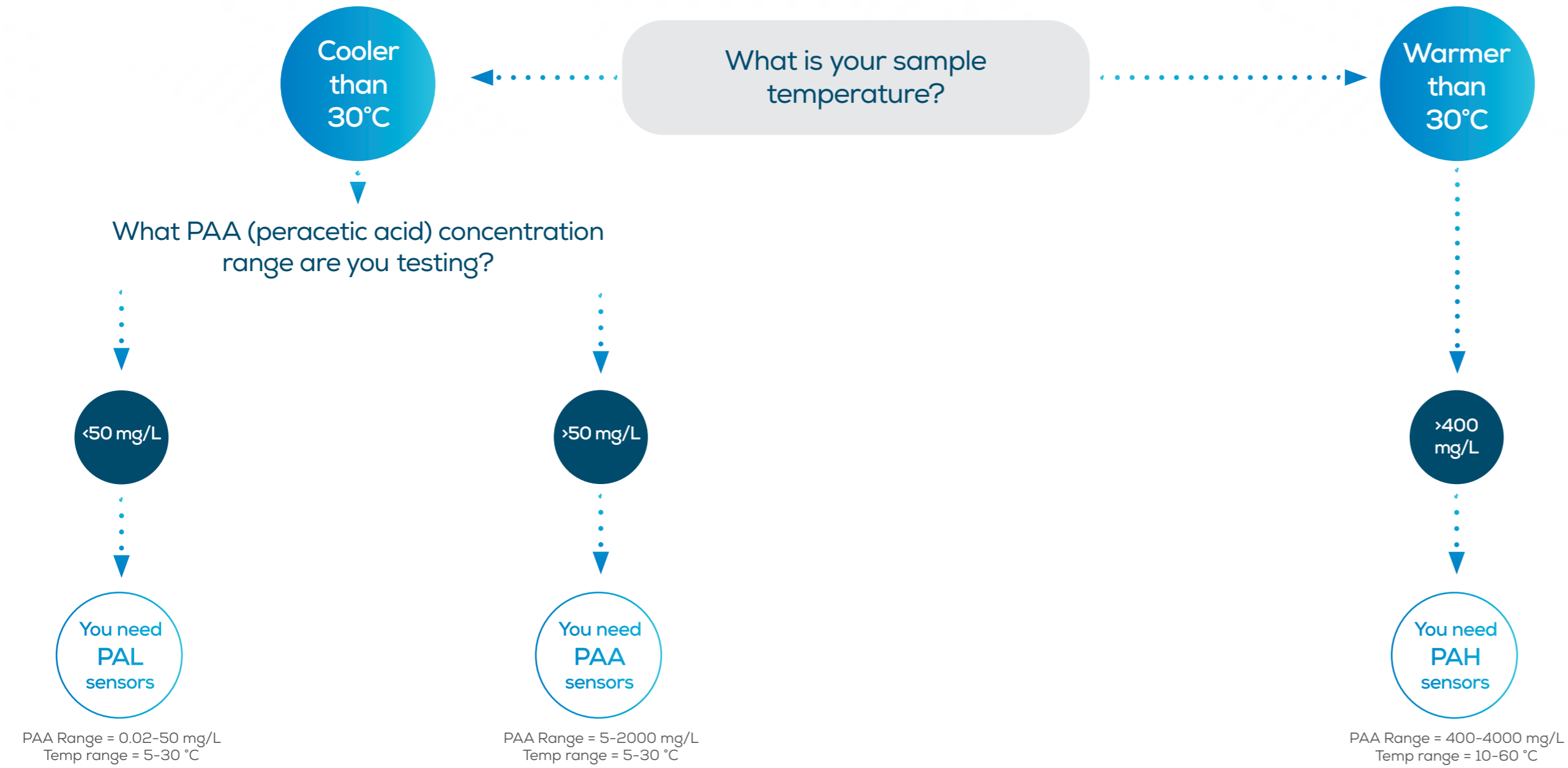
\*Kit required for chlorite measurement.

Items in kit	Benchtop Kit	Soft Case Kit	Hard Case Kit
Kemio™ Disinfection	●	●	●
Check Standards	●	●	●
Protective Case		●	
USB Cable	●	●	●
International Power Adaptor	●	●	●
Kemio™ Sensors			200 Chlorine Dioxide/Chlorite, 100 Chlorine
Soft Case		●	
Hard Case			●

# Chlorine Sensor Selection

Use our chlorine sensor selection diagram to select the most suitable sensor for your testing needs.





## PAA Sensor Selection

Use our PAA sensor selection diagram to select the most suitable sensor for your testing needs.



## Understand your chemical concentration and reduce costs associated with overdosing and underdosing



### Underdosing

- Compromise product quality, cleanliness and safety
- Below regulatory requirements



### Overdosing

- Compromise product quality, taste and safety
- Unnecessarily increasing chemical costs
- Employee safety and environmental contamination

## Kemio™ Disinfection Sensors:

### Chlorine Sensors

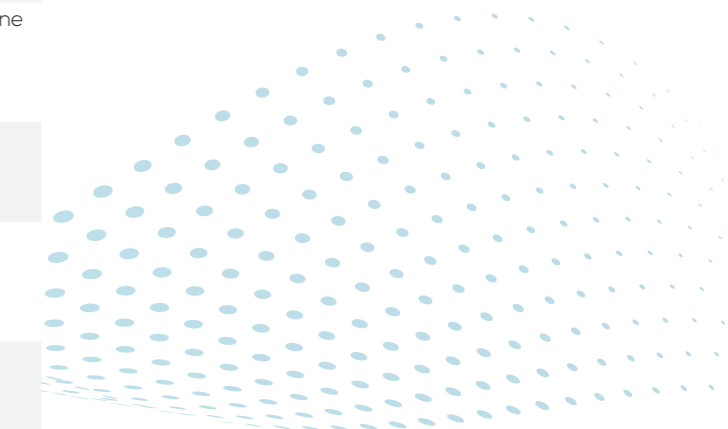
Kemio Sensor Packs	Range	Temperature	Part Code
<b>Free and Total Chlorine</b>			
CLO	Free Chlorine: 0.02 - 10 mg/L Total Chlorine: 0.02 - 75 mg/L	2 - 35°C	100 pack: KEM21CLO 500 pack: KEM25CLO
CHR	Free Chlorine: 0.1 - 25 mg/L Total Chlorine: 1 - 500 mg/L	5 - 25°C 5 - 30°C	100 pack: KEM21CHR 500 pack: KEM25CHR
CLT	Free Chlorine: 0.1 - 25 mg/L Total Chlorine: 1 - 500 mg/L	2 - 15°C	100 pack: KEM21CLT 500 pack: KEM25CLT
<b>Free Chlorine</b>			
FHR	Free Chlorine: 0.1 - 100 mg/L	2 - 20°C	100 pack: KEM21FHR 500 pack: KEM25FHR

### Other Disinfection Sensors

Kemio Sensor Packs	Range	Temperature	Part Code
Bromine	Bromine: 0.2 - 10 mg/L	5 - 30°C	100 pack: KEM21BRS 500 pack: KEM25BRS
Chlorine Dioxide and Chlorite	Chlorine Dioxide: 0.02 - 50 mg/L Chlorite: 0.02 - 50 mg/L	5 - 40°C	Starter pack: (100 sensors and glycine reagent): KEM20CDX 100 pack: KEM21CDX 500 pack: KEM25CDX
Peracetic Acid	Peracetic Acid (PAA): 5 - 2000 mg/L	5 - 30°C	100 pack: KEM21PAA 500 pack: KEM25PAA
Peracetic Acid (low range)	Peracetic Acid (PAA): 0.02 - 50 mg/L	2 - 30°C	100 pack: KEM21PAL 500 pack: KEM25PAL
Peracetic Acid (high range)	Peracetic Acid (PAA): 400 - 4000 mg/L	10 - 60°C	100 pack: KEM21PAH 500 pack: KEM25PAH

Consumables	Part Code
CR-1 Reagent (chlorite test)	PT546
CR-2 Reagent (chlorite test)	PT547
Glycine Reagent (chlorine dioxide and chlorite test)	PT549

Accessories available on page 16





# Kemio™ Heavy Metals

Expert testing for heavy metal contaminants

**US EPA  
APPROVED**  
method for  
lead testing

Testing for:



**Cadmium**

0.2 – 10 µg/L



**Lead**

1 – 100 µg/L



## Ordering information:



### Kemio™ Heavy Metals Soft Case Kit

KEMS10HM

Contains instrument, check standards, micro USB, international adaptor, stylus, quick start instructions and additional protective carry case.

\*Sensors ordered separately

Identify heavy metals contamination to safeguard drinking water and protect public health.



**Safeguarding drinking water**



**Protect public health and the environment**

## Kemio™ Heavy Metal Sensors:

	Range	Temperature	Part Code
Lead	1 – 100 µg/L	5°C – 35°C	<b>10 pack: KEM22MPB</b> Includes tablets, crushing rods and disposable vessels
Cadmium	0.2 – 10 µg/L	5°C – 35°C	<b>10 pack: KEM22MCD</b> Includes tablets, crushing rods and disposable vessels

### Kemio™ Disinfection & Heavy Metals Technical Specification

Language	English, French, Spanish, and Chinese (Simplified)
Connectivity & Data Storage	USB connectivity with 10,000 test results with all test information
Size (W x L x H) and Weight	156 mm x 180 mm x 95 mm, 1012g
Battery	2300mAh NiMH Rechargeable Battery Pack Only battery packs supplied by Palintest can be used with Kemio
Power Supply	USB power and external charger

# Accessories

Accessories	Code	Compatibility	
		KEMIO™ DISINFECTION	KEMIO™ HEAVY METALS
Kemio™Check Standards	KEMC10	●	●
Kemio™Stylus	KEM306	●	●
Kemio™Protective Case	KEM307	●	●
USB Cable	KEM309	●	●
Replacement Sample Vessel (Disinfection)	KEM308	●	
Replacement Sample Vessel (Heavy Metals)	KEM313		●
Degassing Equipment	PT553	●	
Degassing Replacement Filter	PT556	●	
Degassing Pump	PT554	●	

**Kemio**  
A Palintest Product

For all the latest information about Kemio™ visit [www.palintest.com](http://www.palintest.com)



Register your product



Download the latest software



View new sensors



Technical support



Product FAQs



# Kemio

A Palintest Product

## Palintest

Water Analysis Technologies

[www.palintest.com](http://www.palintest.com)

Palintest (HQ)

T : +44 (0) 191 491 0808

E : [sales@palintest.com](mailto:sales@palintest.com)

Palintest House, Kingsway,  
Team Valley, Gateshead,  
Tyne & Wear, England.  
NE11 0NS



Palintest is headquartered in the United Kingdom, with regional offices in Australia, China, and the United States of America.

**KEM-01E**

**v6**