

*assero H20P - The very best for moisture in oil.*

## assero H20P Portable Moisture in Oil Meter

For the very best results from your moisture in oil analysis, the assero H20P has been developed in response to many comments from our customers in laboratories and in the field, to develop a portable, robust, easy to use and highly accurate moisture meter for the measurement of down to 1ppm H<sub>2</sub>O in insulating oils.

The microprocessor controlled assero H20P has a built-in battery and optional carry case , provide the versatility required by the laboratory and also the ease of use and portability required by the field personnel and carries a 5 year warranty.

### Easy to Use

Simple to programme so that only a single button needs to be pressed for the analysis , everything else is automatic.

The unique hermetically sealed glassware design is designed to eliminate any outside atmospheric moisture getting into the cell, allowing the highest sensitivity and performance on the market. The "quick-connect" system hermetically seals the glassware without the use of expensive grease or Teflon sleeves allowing trouble free assembly, maintenance and disassembly.

### Results & Records

The built-in high speed printer provides a hard copy of results and allows duplicate print outs if required. Results can also be downloaded via the Results Manager software package onto a pc spreadsheet format.

### Spares & Accessories

The assero H20P is supplied ready for operation. A comprehensive glassware pack including electrodes, Glass titration vessel, leads, syringe, printer paper, etc, is supplied as standard. A calibration certificate and 5 year warranty is also provided.

### Reagents

Specially formulated to provide optimum performance with all makes and models of coulometric Karl Fischer titrators, our unique reagents provide improved sample miscibility and solubility. assero H20P reagents are packaged in single-shot screw top bottles containing 100ml anode reagent and 5ml easy-snap ampoules of cathode reagent. A standard carton contains 8 anode charges and 8 cathode charges. The reagent pack comprises 8 x 100ml anode reagent and 8 x 5ml cathode reagent.

assero H20P Coulometric KF Moisture in Oil Meter · Simple operation · 10 user programmable methods · 1ppm / 100% · Results in ppm, mg/Kg, % & µg water → Multi language display & print out → Small footprint → Integral high speed printer → Fully portable → Low drift cell design → Automatically compensated errors (patented technique) · Optional carry case → Conforms to ASTM D1533, D 4928, D6304, IP386, IP438, API MPMS Chapter 10.9, IEC60814, ISO 10101-3, 10337 & 12937.



Result	Time	Start	Wait	Value	Stdev	Result	Flag
1	12.94.52	29	22.98	1.8000	0.8750	27.38	
2	12.03.38	29	22.94	1.8000	0.8750	26.83	
3	12.08.08	29	22.98	1.8000	0.8750	26.38	
4	12.08.58	29	22.35	1.8000	0.8750	25.54	

Stat: 27.4 ppm    Min: 25.5 ppm    Mean: 26.4 ppm    SD: 0.65    CV: 2.47



# Technical Specification - assero H20P

<b>Titration method</b>	Coulometric Karl Fischer titration
<b>Electrolysis control</b>	Automatic Compensated Errors control system
<b>End point detection</b>	AC polarisation
<b>End point indication</b>	Visual display/print out/acoustic beep
<b>Display</b>	40 character alphanumeric backlit LCD
<b>Measuring range (possible)</b>	1µg – 100mg water
<b>Measuring range (typical)</b>	1µg – 10mg water
<b>Moisture range</b>	1 ppm – 100% water
<b>Max. sensitivity</b>	0.1 µg
<b>Max. titration speed</b>	2.0 mg per minute
<b>Max. current</b>	400 ma
<b>Drift compensation</b>	Automatically controlled
<b>Start delay time</b>	0 – 30 minutes, user selectable
<b>End delay time</b>	0 – 30 minutes, user selectable
<b>Power supply</b>	90-264V AC, 47-63 Hz. 12V DC car adapter/internal battery

<b>Precision</b>	10-100µg ±3µg, 100µg-1mg ±5µg, above 1mg ±0.5%
<b>Calculation modes</b>	Weight/weight, user programmable
	Weight/dilution ratio, user programmable
	Volume/density, user programmable
	Volume/volume, user programmable
<b>Display format</b>	µg, mg/kg, ppm, %
<b>Print format</b>	µg, mg/kg, ppm, %
<b>Statistics</b>	max, mean, min values upto 99 runs
<b>Method storage</b>	10 user programmable methods
<b>USB output</b>	USB Flash Drive
<b>Sample ID number</b>	User programmable
<b>Printer</b>	42 character high speed thermal printer
<b>Stirrer speed</b>	Microprocessor controlled
<b>Dimensions &amp; Weight</b>	250 x 245 x 120 mm, 3kg
<b>Calendar/clock</b>	Analysis time & date print out
<b>Battery low indicator</b>	Display & print out indication