

# WATER QUALITY TESTER



## MIC water quality tester standard packing :

- 99601 pH :** pH meter , two calibration solutions , one soaking solution ,battery CR2032 and screw driver are installed and manual
- 99602 Conductivity:** Conductivity meter , one calibration solution, battery is installed and manual
- 99603 TDS:** TDS meter, one calibration solution, battery is installed and manual
- 99604 ORP:** ORP meter , one large soaking solution, one small soaking solution , sandpaper for polishing the platinum part of the sensor tip , battery is installed, manual



99702      99720      99701      99703



ORP electrode is optional

## 99720 Combo water quality tester

Standard packing includes:

1. Meter with pH electrode
2. Batteries installed
3. Conductivity electrode
4. Soaking solution
5. pH solution ( 2 bottles )
6. Conductivity ( 1 bottle )
7. Manual
8. Wrist strip
9. Hard carrying case

## More MIC water quality combo testers:

- 99701 pH /mV/Temp.:** pH /ORP meter , three calibration solutions 4.7.10.01, one soaking solution, battery AAA x4 pcs installed and manual, wrist strip.
- 99702 Con/TDS/Salt/Temp.:** Meter , 1413uS calibration solution, battery AAA x4 pcs are installed and manual, wrist strip.
- 99703 DO.O2/Temp.:** DO meter, Electrolyte, soaking solution, batteries installed and manual, wrist strip, batteries AAA x 4 pcs.

## WATER QUALITY TESTER (COMBO PEN)



(99720)

### Supplied with :

Meter x1 , Batteries x2, manual x 1 , carrying pouch x1 , Hard carrying case x1 , wrist strip , soaking solution , pH solution , Conductivity solution x1 , Conductivity electrode , pH electrode (built-on)

**Optional electrode:** ORP electrode

### FEATURES: 99702 Four (4) in one Con/TDS/Salt/Temp. combo pen

- A combo smart pen , buy one get 4 parameters with less cost
- Powered by AAA x 4 pcs batteries
- Dual display Conductivity or TDS or Salt and temperature readings



Self-calibrate with supplied conductivity solution  
**Supplied** with Meterx1 , Cond. solution x1 , Soak solution x 1 , batteries x 4 , manual and wrist strip, hard case.

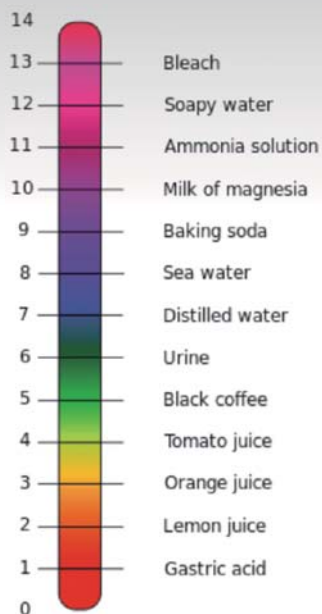
Model No.	99702 ( 4 in one )		
Type	Cond.	TDS	Salt
Range	0~2000µS, 2.00~20.00mS	0~1300ppm 1.30~13.00ppt	0~1000ppm, 1.00~12.00ppt
Accuracy	±2%FS (Cond. TDS Salt)		
Resolution	1µS/ 0.01mS	1ppm/ 0.01ppt	1ppm/ 0.01ppt
ATC	0~50°C		
Calibration	Cond: 0µS/ 1413µS/ 12.88mS		

### FEATURES :

- A very smart pen type combo water quality tester, buy one get more than 6 parameter measurement ,microprocessor based for fast and accurate display
- A new shape design powered by AAA DC1.5V x 4 pcs batteries
- Simple to calibrate by one button, may float on water
- Compact housing Ip57 water resistant design
- Large LCD display pH or ORP or Cond. or TDS or Salt and temperature simultaneously
- ATC stands for Automatic Temperature Compensation
- MSC stands for Manually salinity calibration
- MAC stands for Manually altitude compensation
- Data hold freezes current reading, Maximum/Minimum function
- Temp.C and F are selectable, battery low indication. Auto power off in 10 minutes
- Easy to replace with new electrode to maintain meter life
- Replacement electrode modules are easy to replace and the type of electrode would be recognized automatically and shown in display during insertion
- Wide range pH measurement from -2 to 16

Model No.	99720 ( 6 in one )		
Type	pH	ORP	Temp.
Range	-2~16.00	-1000~1000	0~90°C
Accuracy	±0.01+1dg	±2+1dg	±0.2°C+1dg
Resolution	0.01pH	1mV	0.1°C
ATC	0~90°C		
Calibration	pH: 4.00/ 7.00/ 10.01		
Type	Cond.	TDS	Salt
Range	0~2000µS, 2.00~20.00mS	0~1300ppm 1.30~13.00ppt	0~1000ppm, 1.00~12.00ppt
Accuracy	±2%FS (Cond. TDS Salt)		
Resolution	1µS/ 0.01mS	1ppm/ 0.01ppt	1ppm/ 0.01ppt
ATC	0~50°C		
Calibration	Cond: 0µS/ 1413µS/ 12.88mS		
Power	AAA batteries x 4 pcs		
Weight	Meter : 135 g (battery included), Kit: 780g		
Dimension	Meter : 195 X40x36mm ( Kit: 230x205x50mm)		

# WATER QUALITY TESTER (COMBO PH/ORP)



Optional ORP electrode



ORP Level (mV)	Application
0-150	No practical use
150-250	Aquaculture
250-350	Cooling Towers
400-475	Swimming pools
450-600	Hot Tubs
600	Water Disinfection
800	Water Sterilization

## FEATURES :

- A very smart pen type combo water quality tester, buy one get two parameters' measurement with less cost ,microprocessor based for fast and accurate display.
- Wide range pH measurement from -2 to 16
- By changing ORP electrode ( Optional), the meter shows mV unit automatically.
- A new shape design powered by AAA DC1.5V x 4 pcs batteries
- Simple to calibrate by one button, may float on water
- Compact housing Ip57 water resistant design
- Large LCD dual display pH or ORP and temperature simultaneously
- ATC stands for Automatic Temperature Compensation
- Data hold freezes current reading, Maximum/Minimum function
- Temp.C and F are selectable
- Battery low indication
- Auto power off in 10 minutes
- Easy to replace with new electrode to maintain meter life
- Replacement electrode modules are easy to replace and the type of electrode would be recognized automatically and shown in display during insertion

## Supplied with :

Meter x1 , Batteries x2, manual x 1 , Hard carrying case x1 , wrist strip , soaking solution , pH solution , (4.0 and 7.0) , pH electrode (built-on)



Standard package

**Optional electrode:** ORP electrode

Model No.	99701 ( 3 in one)		
Type	pH	ORP	Temp.
Range	-2~16.00	-1000~1000	0~90°C
Accuracy	±0.01+1dg	±2+1dg	±0.2°C+1dg
Resolution	0.01pH	1mV	0.1°C
ATC	0~90°C		
Calibration	pH: 4.00/ 7.00/ 10.01		
Power	AAA batteries x 4 pcs		
Weight	Meter : 135 g (battery included), Kit: 780g		
Dimension	Meter : 195 X40x36mm ( Kit: 230x205x50mm)		

# WATER QUALITY TESTER ( CONDUCTIVITY, TDS)



99603  
TDS pen



99602  
COND pen

### Typical conductivity of waters:

Ultra pure water	5.5 · 10 <sup>-6</sup> S/m
Drinking water	0.005 – 0.05 S/m
Sea water	5 S/m

\* The conductivity increases as the concentration of ions increases.

\* TDS or Total Dissolved Solids is a measure of the total ions in solution. EC is actually a measure of the ionic activity of a solution in term of its capacity to transmit current.

### Water hazard level:

TDS( ppm or mg/L ) < 500 none , 1000~2000ppm ( Moderate ) , > 2000pp, (Severe)

### FEATURES :

- Pen size fast response, reliable and accurate measurement: Conductivity, TDS
- Electrode replacement is available , easy to calibrate by end user
- Conductivity meter models: 0~19990uS (99602), 0~1999uS (99622)
- TDS (Total Dissolved Solid) meter models: 0~19990ppm (mg/L)(98603) ,0~1999ppm (mg/L)(98632)
- Supplied calibration solution and soaking water, convenient for end users (Cond.TDS)
- Large LCD display 21x18mm ,impact resistant ABS case IP57 rated
- Dimension: 170x33.5mm , weight : 85g (with battery)
- Manual calibration via screw trim pot
- Powered by CR2032 batteries, battery low indication when power is weak
- Auto power off function for saving battery life

### Supplied with :

- Conductivity :Meter x1 , Batteries x2 , manual x 1 , box x1 , Conductivity solution x1 ,soaking solution x1 , screw driver x1
- TDS :Meter x1 , Batteries x 2 ,manual x1 , box x1 , soaking solution x1 , screw driverx1

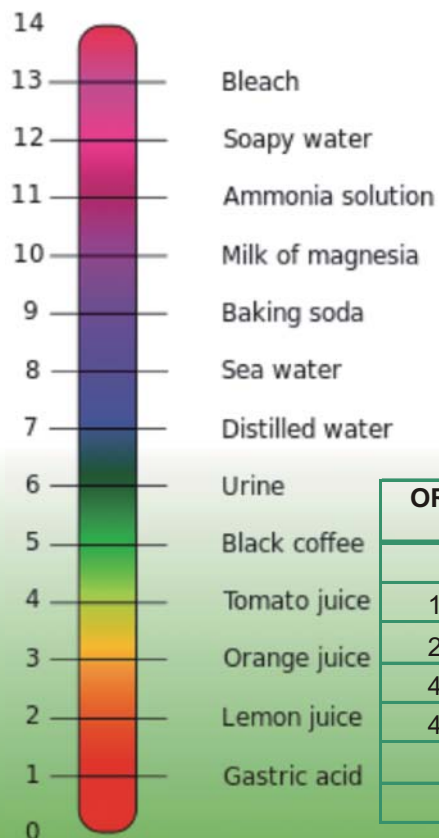
### Application:

- Agriculture. Anti-freeze recycling. Aquarium. Boiler. Chemical industrial . Cooling tower. Drinking water. Fish farming . Food industry . Garden husbandry. Hydroponic. Laboratory usage. Plating industry. Swimming pool & SPA . Water treatment.

	99603 / 99632	99602 / 99622
Type	TDS	Conductivity
TDS range	0-19990 ppm / 0-1999ppm(99632)	N/A
TDS accuracy	±1% FS	N/A
Cond range	N/A	0~19990 μS /0~1999 μS
Cond accuracy	N/A	±1% FS
Resolution	10 ppm / 1ppm(99632)	10 uS/cm , 1uS/cm(99622)
Power	3V X 2 Lithium battery CR2032	
ATC	YES	N/A
Dimension	Meter: 170x33.5mm	

# WATER QUALITY TESTER (PH, ORP)

## Some typical pH values



ORP Level (mV)	Application
0-150	No practical use
150-250	Aquaculture
250-350	Cooling Towers
400-475	Swimming pools
450-600	Hot Tubs
600	Water Disinfection
800	Water Sterilization

## FEATURES :

- Pen size fast response, reliable and accurately measure pH , ORP
- Electrode replacement is available , easy to calibrate by end users
- pH meter with ATC ( 99601) , without ATC (99601A)
- ORP (Oxidation Reduction Potential) meter 99604
- Supplied calibration solution and soaking water, convenient for end users (pH)
- Large LCD display 21x18mm ,impact resistant ABS case IP57 rated
- Dimension: 170x33.5mm , weight : 85g (with battery)
- Manual calibration via screw trim pot
- Powered by CR2032 batteries, battery low indication when power is weak
- Auto power off function for saving battery life

## Supplied with :

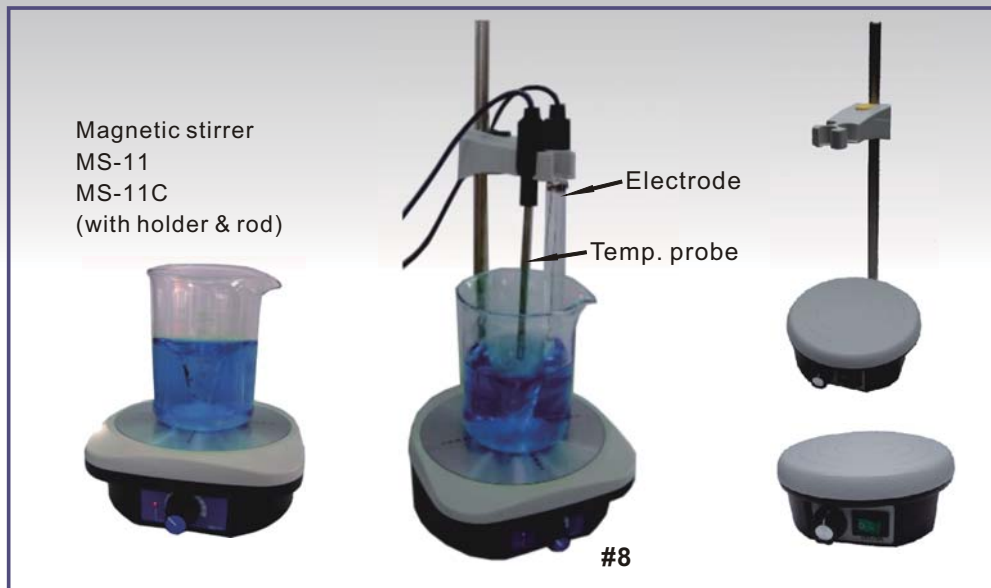
- pH meter x1 , Batteries x2, manual x 1 , box x1 , pH solution x1 ,soaking solution x1 screw driver x1
- ORP meter x1 , Batteries x 2 ,manual x1 , box x1 , soaking solution x1

## Application:

- Agriculture. Anti-freeze recycling. Aquarium. Boiler. Chemical industrial . Cooling tower. Drinking water. Fish farming . Food industry . Garden husbandry. Hydroponic. Laboratory usage. Plating industry. Swimming pool & SPA . Water treatment.

	99601	99601A	99604
Type	pH		ORP
pH range	0-14.0		N/A
pH accuracy	$\pm 0.1+1\text{dgt}$	$\pm 0.01+2\text{dgt}$	N/A
mV range	N/A		$\pm 1999\text{ mV}$
mV accuracy	N/A		$\pm 2\% \text{ FS}$
Resolution	0.1pH	0.01pH	1 mV
Power	3V X 2 Lithium battery CR2032		
Calibration	1 or 2 points		N/A
ATC	N/A	YES	N/A
Dimension	Meter: 170x33.5mm		

# WATER QUALITY TESTER (ACCESSORIES)



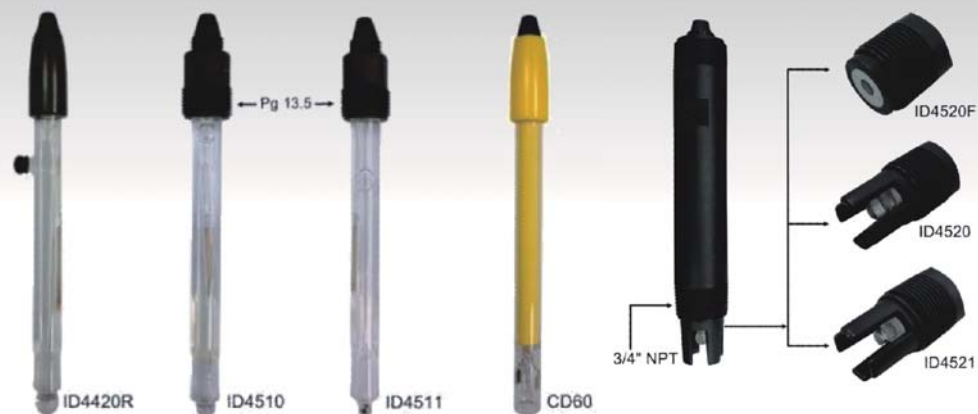
## ACCESSORIES:

- 1. pH electrode (For pen size and general hand held type)  
pen size ( In blister pack ), hand held type (In bulk packing )
- 2. Conductivity electrode ( For pen size and general hand held type)  
pen size ( In blister pack ), hand held type (In bulk packing )
- 3. TDS (Total dissolved Solid) electrode (For pen size )  
pen size ( In blister pack ), hand held type (In bulk packing )
- 4. pH Solution 4.0 /7.0 /10.1
- 5. Conductivity solution 0uS ,1413uS ,12.88mS
- 6. Soaking solution
- 7. Electrode holder ( For general hand held electrode type )  
Low cost , light weight, compact ABS body to resist most harmful chemical  
Holder arm can be adjustable the height and rotated easily for holding electrode or temperature probe  
Size: 400mm(H) x 260mm (W)  
Weight: 650g (Approx)
- 8. Magnetic stirrer MS-11  
Magnetic stirrer with electrode holder & rod MS-11C  
New design in a special round shape by ABS housing , the speed can be adjustable between 0 ~2000 RPM. Suitable for mixing thinly fluid media up to 1000ml  
Powered by: DC 6V adaptor  
Working diameter: 120mm  
Dimension: 135x53mm (MS-11) , 150x135x53mm (MS-11C)  
Weight: 630g (MS-11) , 710g (MS-11C)  
Standard package: Stirrerx1 , Stir bar x2 , Holder with clamp & Rod ( MS-11C only) , Manual , Gift box and AC/DC adaptor.



#7  
Electrode holder

# WATER QUALITY ELECTRODE & CELL

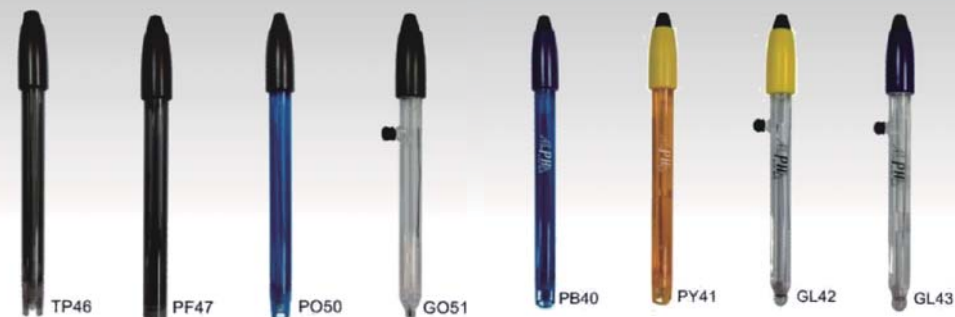


## Type reference Ag/AgCl

Range:  $\pm 1500\text{mV}$

ORP	Model	Temp.	Junction	Refillable	Body	Connector	Size(mm)	Cable
	PO 50	0-80°C	Ceramic	No	PC	BNC	160x12	1 m
GO 51	0-80°C	Ceramic	Yes	Glass	BNC	160x12	1 m	
ID 4511	5-90°C	Ground glass sleeve	No	Glass	Spade Lug	155x12	1 m	
ID 4521	0-80°C	Cricoid Teflon	No	PPS	Spade Lug	176x16	3 m	

Cell	Model	Range	Temp.	Junction	Body	Connector	Size(mm)	Cable
	CD 60	K=1.0	0-90°C	Pt plate	Glass	BNC	155x12	1 m
	CD 60P(w/Pt100)	K=1.0	0-90°C	Pt plate	Glass	DIN 7 pin	155x12	1 m
	CD 60T(w/Thermistor)	K=1.0	0-90°C	Pt plate	Glass	DIN 7 pin	155x12	1 m



## Specifications

	Model	Range	Temp.	Type Ref.	Junction	Refillable	Body	Connector	Size(mm)	Cable
pH	PB 40	0-14	0-80°C	Ag/AgCl	Ceramic	No	PC	BNC	165x12	1 m
	PY 41	0-14	0-80°C	Ag/AgCl	Ceramic	No	PC	BNC	160x12	1 m
	GL 42	0-14	0-90°C	Ag/AgCl	Ceramic	Yes	Glass	BNC	155x12	1 m
	GL 43	0-14	0-90°C	Ag/AgCl	Ceramic	Yes	Glass	BNC	155x12	1 m
	TP 46P(w/Pt100)	0-14	0-80°C	Ag/AgCl	Ceramic	No	PC	BNC+3.5φ Plug	160x12	1 m
	TP 46T(w/Thermistor)	0-14	0-80°C	Ag/AgCl	Ceramic	No	PC	BNC+3.5φ Plug	160x12	1 m
	PF 47	0-14	5-80°C	Ag/AgCl	Cricoid Teflon	No	PVC	BNC	106x15	1 m
	ID 4410	0-14	5-90°C	Ag/AgCl	Ground glass sleeve	No	Glass	Spade Lug	160x12	1.2 m
	ID 4420R	0-14	5-90°C	Ag/AgCl	Ground glass sleeve	Yes	Glass	Spade Lug	160x12	5.0 m
	ID 4510	0-14	5-90°C	Ag/AgCl	Ground glass sleeve	No	Glass	Spade Lug	155x12	1 m
	ID 4520	0-14	0-80°C	Ag/AgCl	Cricoid Teflon	No	PPS	Spade Lug	176x16	3 m
	ID 4520F	0-14	0-80°C	Ag/AgCl	Cricoid Teflon	No	PPS	Spade Lug	176x16	3 m

Holder Material: PVC Size: 230 x 38 mm (for 4510 & 4511)