



+27 60 999 9140  
 info@microanalytica.co.za  
 489 Jacqueline Drive, Garsfontein  
 Pretoria, Gauteng, 0081

ANALYTICAL EXCELLENCE...

[www.microanalytica.co.za](http://www.microanalytica.co.za)

**Portable Conductivity / TDS / Salinity Meter**

**FEATURES: MA-pH520**

- 1 – 3 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows calibration points and factors
- Selectable cell constant, reference temperature, linear/non-linear and pure water compensation modes
- Automatic Temperature Compensation ensures accurate readings
- Auto-read function senses and locks measurement endpoint
- Setup menu allows setting the number of calibration points, temperature unit, auto power-off etc
- Reset function defaults instrument to factory settings
- Stores/recalls up to 100 data sets
- USB communication interface for data transfer

**FEATURES: MA-pH531/pH531/pH540**

- 1 – 5 points calibration with automatic recognition for conductivity standards
- Automatic electrode diagnosis shows calibration points and factors
- Selectable cell constant, reference temperature, TDS factor, linear and pure water compensations, seawater and practical salinity measurement modes
- Automatic Temperature Compensation ensures accurate readings
- Auto-read function senses and locks measurement endpoint
- Setup menu allows setting the number of calibration points, stability criteria, temperature unit, date and time etc
- Reset function available to default instrument to factory settings



- Stores/recalls up to 500 data sets
- USB communication interface for data transfer
- Calibration reminder
- Auto power off effectively conserves battery life

**ACCESSORIES:**

Meter, CON-1 conductivity electrode, temperature probe, standard solutions, and carrying case.

**MODEL SPECIFICATIONS:**

Model	MA-pH520	MA-pH530	MA-pH531	MA-pH540
Conductivity Range	0.1~2μS/cm (CON-0.1, optional), 2~20mS/cm (CON-1, standard), 20~200 mS/cm (CON-10, optional)			
Conductivity Accuracy	±0.5% F.S.			
Conductivity Resolution	0.001, 0.01, 0.1, 1			
Conductivity Calibration Points	1 to 3 points (pH-520), 1 to 5 points (pH-530/531/540)			
Conductivity Calibration Solutions	10μS/cm, 84μS/cm, 1413μS/cm, 12.88mS/cm, 111.8mS/cm			
TDS Range	/	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt	/	0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt
TDS Accuracy	/	±1% F.S	/	±1% F.S
TDS Resolution	/	0.01, 0.1, 1	/	0.01, 0.1, 1
TDS Factor	/	0.1~1.0 (default 0.5)	/	0.1~1.0 (default 0.5)
Salinity Range	/		0.00~42.00psu, 0.00~80.00ppt	
Salinity Accuracy	/		±1% F.S	
Salinity Resolution	/		0.01	
Resistivity Range	/			0.00~20.00MΩ
Resistivity Accuracy	/			±1% F.S
Resistivity Resolution	/			0.01
Temp. Range	0~105°C/32~221°F			
Temp. Accuracy	±0.5°C/±0.9°F			
Temp. Resolution	0.1°C/0.1°F			

Temp. Offset Calibration	1 point, reading +10°C	
Temp. Compensation	0~100°C, manual or automatic	
Temp. Coefficient	Linear (0.0~10.0%/°C, non-linear, pure water)	
Reference Temp.	20/25°C	
Cell Constant	K=0.1, 1, 10	
Standby Criteria	/	Low or High
Calibration Due Alarm	/	1 to 31 days or Off
Hold Function	Manual or auto-endpoint	
Auto-off	30 minutes after last key pressed (pH-520); 10, 20 or minutes after last key pressed (pH-530/531/540)	
Memory	100 data sets (pH-520); 500 data sets (pH-530/531/540)	
Communication Interface	USB	
Connector	6-pin mini-DIN, 3.5mm jack socket	
Display	Custom LCD (80*60mm)	
Power Requirements	3 x 1.5 "AA" batteries or DC5V power adapter	
Battery Life	Approximately 150 hours (backlight turned off)	
Dimensions (W*D*H) mm	170*85*30	
Package Size (W*D*H) mm	475*155*350	
Net Weight (g)	300	
Gross Weight (kg)	2	