M Milwaukee

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Authorized Dealer:

SMS310

Smart Conductivity Monitor

The **SMS310** is a reliable conductivity monitor with automatic temperature compensation and 1 point manual calibration, powered by a 12 VDC adapter.

The **SMS310** is ideal for the hydroponic market and allows you to continuously monitor EC value directly in your reservoir.

Other features include: user selectable set point, visual LED alarm when values go below the set point

The SMS315 is a reliable conductivity monitor with automatic temperature compensation and 1 point manual calibration powered by a 12 VDC adapter. The SMS315 and SMS415 allows you to continuously monitor EC and TDS values directly in your reservoir.	Sweet EO Mentituday System 5.50 as cul Test
The Cal-test feature will warn the user (through an LED) when the probe needs to be calibrated again!	पा

	SMS315	SMS415	
Range	0.00 to 9.99 mS/cm	0 to 1990 mg/L (ppm)	
Resolution	0.01 mS/cm	10 mg/L (ppm)	
Accuracy (@25°C)	±2% full scale	±2% full scale	
Temperature	automatic, from 5 to 50°C		
Compensation			
Probe	MA815/2 (included)	MA816/2 (included)	
Continuous	0 to 50°C, many DILLOFO/	0 to 50°C, may DI L050/	

SMS315/SMS415 Smart Conductivity & TDS Monitors with Cal-test button

Sman The Si matic manua adapte The S and a

0.0 to 10.0 mS/cm

1.5 to 3.5 mS/cm

active when the measure

is lower than the set point

automatic, from 5 to 50°C

MA811/2 (included)

12 VDC (included)

0 to 50°C: max RH 95%

0.1 mS/cm

±2% full scale

SMS310

Accuracy (@25°C

Temp. Compensati

SMS410 Smart TDS Monitor

The **SMS410** is a reliable TDS monitor with automatic temperature compensation and 1 point manual calibration, powered by a 12 VDC adapter.

The **SMS410** is ideal for the hydroponic market and allows you to continuously monitor TDS value directly in your reservoir.

Other features include: user selectable set point, visual LED alarm when values go below the set point.

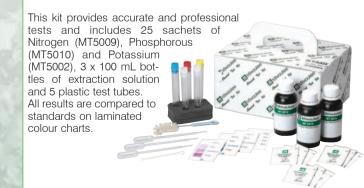
SMS410	
Range	0 to 1990 ppm
Resolution	10 ppm
Accuracy (@25°C)	±2% full scale
Set point	700 to 1900 ppm
Alarm	active when the measure is lower than the set point
Temp. Compensation	automatic, from 5 to 50°C
Probe	MA812/2 (included)Environment 0 to 50°C; max RH 95%
Power supply	12 VDC (included)

MT6003 NPK Soil Test Kit

The primary nutrients essential to plant growth and quality of your plants are **Nitrogen**, **Phosphorous** and **Potassium**.

12 VDC (included)

The **Nitrogen** is associated with plant growth above the ground, the **Phosphorous** is responsible for flower and fruit production as well as overall plant health. The **Potassium** promotes disease resistance, water intake and strong root growth.





Smart pH/CO₂ Controller

The **SMS122** is a Smart pH controller with a selectable set point from 5.5 to 9.5 pH.

The **SMS122** has a visual Led alarm when values go above the selected set point.

The **SMS122** pH controller enables you to automate your acid feeding requirements by connecting your pump to the plug socket supplied with the meter.

The meter is also supplied with calibration solution and a 12 VDC adapter.

SMS122

Range	0.0 to 14.0 pH
Resolution	0.1 pH
Accuracy (@25°C)	±0.2 pH
Set point range	5.5 to 9.5 pH
Alarm	active when reading is higher than set point
Dosing contact	1 power plug for acid feeding
pH electrode	MA911B/2 (included)
Environment	0 to 50°C; max RH 95%
Power supply	12 VDC (included)

M14U4 Free and Total Chlorine Photometer

The Milwaukee **Mi404** photometer ensures excellent repeatability and measures: free & total chlorine.

This user-friendly photometer will give you direct readings in mg/L.

The Mi404 is a portable microprocessor-based instrument to measure free & total chlorine (with a range of 0.00 to 5.00 mg/L) which has a great resolution, accuracy and gives immediate results.

Each photometer is supplied in a hard carrying case, complete with reagents for 100 tests (Mi504-100).

Mi404 Free & total chlorine	
Range	0.00 to 5.00 mg/L Cl ₂
Resolution	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)
Accuracy	±0.04 mg/L @1.50 mg/L
Light source	tungsten lamp
Environment	0 to 50°C / 32 to 122°F; max RH 95%
Battery type	1 x 9V (included)
Auto-off	after 10 minutes of non use



The MR32ATC refractometer is an instrument required to monitor the quality of the product before and after the picking. An high value of brix degree means an high sugar concentration and a great content of proteins and minerals.

Each refractometer has automatic temperature compensation. The refractometer is supplied in a hard protective carrying case, and includes calibration screwdriver, pipette and user manual.

	Range	Resolution	Accuracy
MR32ATC	0-32% Brix	0.1%	±0.2%

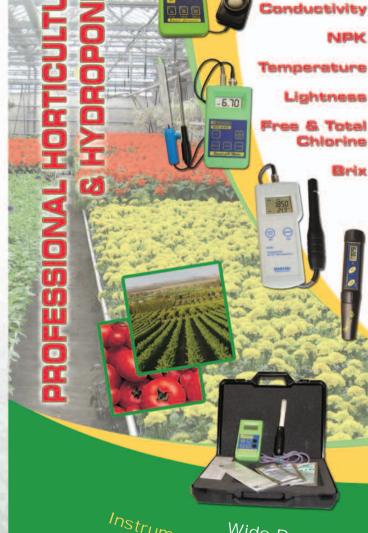
Electrodes and Probes

Milwaukee has a wide range of pH,
Conductivity and temperature electrodes & probes to meet the need

of any hydroponics application. Milwaukee also offers a wide range of calibration, maintenance & cleaning solutions, necessary for the correct use of your electrodes and probes. Milwaukee standard solutions are available in 230 mL bottles or 20 mL sachets.

Electrodes, probes & solutions MAR11/2 Conductivity/TDS probe with 2 m cable (SMS310)

MA811/2	Conductivity/TDS probe with 2 m cable (SMS310)
MA812D/1	Conductivity/TDS probe with DIN connector and 1 m cable (SM302)
MA815/2	Conductivity/TDS probe with 2 m cable (SMS315)
MA830R	Stainless steel temperature probe (SM102)
MA850	pH/EC/TDS spare combination probe with 1 m cable (SM802)
MA851D/1	pH/Conductivity/TDS/Temperature amplified probe
	with DIN connector and 1 m cable (Mi805)
MA911B/1	Double junction, gel filled pH electrode with BNC connector
	and 1 m cable (SM100)
MA911B/2	Double junction, gel filled pH electrode with BNC connector
	and 2 m cable (SMS110 e SMS122)
MA912B/2	pH electrode with BNC connector and 2 m cable (SMS115)
MA918B/1	Combined glass-body, refillable, triple junction pH electrode
	with BNC connector and 1 m cable (SM102)
MA73047	Replaceable pH electrode (pH52)
MA73076	Replaceable Conductivity/TDS probe (C66)
MA73076-S	Replaceable Conductivity/TDS long probe (C66-S)
MA73600	Replaceable pH electrode (pH51)
MA73600-S	Replaceable pH long electrode (pH51-S)
MA9004	pH 4.01 buffer solution (230 mL)
MA9007	pH 7.01 buffer solution (230 mL)
MA9015	Storage solution for pH/ORP electrodes (230 mL)
MA9016	Cleaning solution for pH/ORP electrodes (230 mL)
MA9061	1.413 μS/cm conductivity calibration solution (230 mL)
M10000B	Rinse solution - Deionized water (box of 25 x 20 mL sachet)
M10004B	pH 4.01 buffer solution (box of 25 x 20 mL sachet)
M10007B	pH 7.01 buffer solution (box of 25 x 20 mL sachet)
M10010B	pH 10.01 buffer solution (box of 25 x 20 mL sachet)
M10031B	1.413 µS/cm conductivity calibration solution
	(box of 25 x 20 mL sachet)



Wide Range of Horticulture & Hydroponics





pH51/pH52 Waterproof pH & Temp. Testers with replaceable electrode

The **pH51** is a waterproof pH tester with 2 points manual calibration. ±0.1 pH accuracy and a range of 0.0

The pH52 is a waterproof pH and temperature tester with 2 points automatic calibration, a range of -2.0 to 16.0 pH and of -5.0 to 60.0°C and ± 0.1 pH accuracy. The modular design of these testers allows easy electrode and battery replacement.

The instruments are supplied in a casing complete with calibration solution.

	pH51	pH52
Range pH Temp	0.0 to 14.0 pH	-2.0 to 16.0 pH -5.0 to 60.0°C / 23.0 to 140.0°F
Resolution pH Temp	0.1 pH	0.1 pH 0.1°C / 0.1°F
Accuracy pH (@25°C) Temp	±0.1 pH	±0.1 pH ±1°C / ±2°F
Calibration	manual, 2 points	automatic, 1 or 2 points
Temp. compensation		automatic
pH electrode	MA73600 (replaceable)	MA73047 (replaceable)
Environment	0 to 50°C / 32 to 122°F max RH 95%	-5 to 60°C / 23 to 140°F max RH 95%
Battery type	3 x 1.5V (included)	3 x 1.5V (included)
Battery life	approx. 1500 hours of use	approx. 200 hours of use

pH51-8 Waterproof pH & Temperature Testerwith 30 cm long electrode

The **pH51-S** is an ideal tester for use in nutrient mixing tanks. The 30 cm stick type rugged pH electrode is designed for mixing solutions and measuring pH directly in your tank.

Its IP67 Waterproof casing and replaceable probe make it suitable also for heavy duty applications, such as Wastewater treatment and Agriculture.

The modular design allows easy electrode and battery replacement. Manual calibration prolongs the battery life up to 1500 hours.

The pH51-S has a range of 0.0 to 14.0 pH and 0.1 pH

pH51-S	
Range pH	0.0 to 14.0 pH
Resolution pH	0.1 pH
Accuracy pH	±0.1 pH
Calibration	manual, 2 points
pH electrode	MA73600-S (replaceable)
Environment	0 to 50°C / 32 to 122°F; max RH 95%
Battery type	3 x 1.5V (included)
Battery life	approx. 1500 hours of use



The **C66** is a conductivity IP67 waterproof tester, specifically designed for the hydroponics and Agricultural markets, with automatic temperature compensation and 1 point manual calibration. The tester has a range of 0.00 to 10.00 mS/cm.

The **C66** has a replaceable electrode and is supplied in a casing with calibration solution sachets (M10031) and screwdriver for calibration.

The modular design allows easy electrode and battery replacement.

T75: waterproof TDS tester with range of 0 to 1999 ppm is

	C66	T75
Range	0.00 to 10.00 mS/cm	0 to 1999 ppm (mg/L)
Resolution	0.01 mS/cm	1 ppm (mg/L)
Accuracy	±2% full scale	±2% full scale
Temperature Compensation	automatic from 5 to 50°C / 41 to 122°F, with β=2%/°C	automatic from 5 to 50°C / 41 to 122°F, with β =2%/°C
Calibration	manual, 1 point through trimmer	manual, 1 point
Probe	MA73076 (replaceable)	MA73075 (replaceable)
Environment	0 to 50°C / 32 to 122°F; max RH 95%	0 to 50°C / 32 to 122°F; max RH 95%
Battery type	3 x 1.5V (included)	3 x 1.5V (included)
Battery life	approx. 250 hours of use	approx. 250 hours of use

C66-8 Waterproof Conductivity Tester with 30 cm long probe

The **C66-S** is an ideal tester for use in nutrient mixing tanks. The 30 cm stick type rugged conductivity probe is designed for mixing solutions and measuring nutrient directly in your

Its IP67 Waterproof casing and replaceable probe make it suitable also for heavy duty applications, such as Wastewater treatment and Agriculture.

The modular design allows easy electrode and battery replacement.

The **C66-S** is a conductivity high range tester with a range of 0.00 to 10.00 mS/cm.

C	6	6	-	S	

Range	0.00 to 10.00 mS/cm
Resolution	0.01 mS/cm
Accuracy	±2% full scale
Temp. comp.	automatic from 5 to 50°C / 41 to 122°F, with β=2%/°C
Calibration	manual, 1 point through trimmer
Probe	MA73076-S (replaceable)
Environment	0 to 50°C / 32 to 122°F; max RH 95%
Battery type / life	3 x 1.5V (included), approx. 250 hours of use



Portable pH Meter

This SM100 pH meter, with 2 points manual calibration, provides instant readings of one of the most important factors in efficient plant production: soil and well water pH. Soil and well water pH that is too acid or alkaline can have an adverse effect on plant nutrient and water uptake and directly effect the efficency of fertilizer, herbicides and pesticides. The SM100 is supplied complete with MA911B/1 pH electrode, calibration solution and 9V battery.

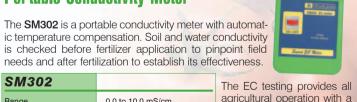
Portable pH/Temperature Meter

The SM102 is a microprocessor based pH/temp mete with extended range (-2.00 to 16.00 pH and -5 to 70°C), ± 0.01 pH accuracy, automatic calibration in 2 points and automatic temperature compensation and is ideal for soil measurements.

		SM100	SM102
Range	pH/Temp	0.0 to 14.0 pH	-2.00 to 16.00 pH / -5 to 70°C
Resolution	pH/Temp	0.1 pH	0.01 pH / 0.1°C
Accuracy	pH/Temp	±0.2 pH	±0.01 pH / ±0.5°C
Temp. compensation			automatic, 0 to 70°C
Calibration		manual, 2 points	automatic, 1 or 2 points
pH electrode		MA911B/1 (included)	MA918B/1 (included)
Temperature probe			MA830R (included)
Environment		0 to 50°C; max RH 95%	0 to 50°C; max RH 95%
Battery type / life		1 x 9V (included), 300 hours	1 x 9V (included), 750 hours
Auto-off		after 8 minutes of non-use	after 8 minutes of non-use

Portable Conductivity Meter

The SM302 is a portable conductivity meter with automatic temperature compensation. Soil and water conductivity is checked before fertilizer application to pinpoint field needs and after fertilization to establish its effectiveness.



0.0 to 10.0 mS/cm Resolution 0.1 mS/cm ±2% full scale Accuracy (@25°C) 1413 μS/cm (M10031B) Calibration solutions Conductivity probe MA812D/1 (included) Temp. compensatio automatic, 0 to 50°C 0 to 50°C; max RH 95% 1 x 9V (included) Battery type approx. 300 hours of use



method to optimize chemi-

cal applications and mini-

The SM302 is supplied

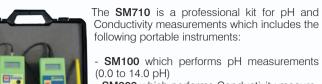
complete with MA812D/1

Conductivity probe, calibra-

tion solution and 9V battery.

mize operational cost.

SM710 Professional Kit for pH and Conductivity measurements



Conductivity measurements which includes the

- SM302 which performs Conductivity meaurements (0.0 to 10.0 mS/cm).

The meters are supplied in a rugged carrying case complete with a pH electrode. Conductivity probe, calibration solutions and 2 x 9V batteries.

The **SM100** pH meter, with 2 points manual calibration, provides instant readings of one of the most important factors in efficient plant production: soil and well water pH

The SM302 is a portable conductivity meter with automatic temperature compensation. Conductivity measurement allow you to monitor Total Dissolved Solids values in your reservoir.

SM802 pH/Conductivity/TDS Portable Meter

The **SM802** is a multi-parameter portable instrument that tests 3 of the most important parameters in hydroponics: pH/EC/TDS. Accuracy is ensured with ATC.

Soil and well water pH that is too acid or alkaline can have an adverse effect on plant nutrient and water uptake and directly effect the efficency of fertilizer, herbicides and pesticides. Soil conductivity is checked before fertilizer application to pinpoint field needs and after fertilization to establish its effectiveness.

31V16U2		
Range	pH EC/TDS	0.00 to 14.00 pH 0.00 to 6.00 mS/cm; 0 to 4000 ppm
Resolution	pH EC/TDS	0.10 pH 0.01 mS/cm; 10 ppm
Accuracy (@20°C)	pH EC/TDS	±0.20 pH ±2% full scale
Conversion factor		0.5
Calibration		manual, 1 point
Temperature compensation		automatic, 0 to 50°C / 32 to 122°F
Probe		MA850, combination pH/EC/TDS probe (included)
Environment		0 to 50°C; max RH 95%
Battery type / life		1 x 9V (included), approx, 150 hours of use



M:OOF

Mi805 Portable pH/EC/TDS/ Temperature Meter

The Mi805 is a professional portable meter which mesures the 4 most important parameters in the growning environment: pH, Conductivity, TDS and Temperature. Accuracy is ensured with the automatic temperature compensation feature. Other features include: adjustable TDS factors from 0.45 to 1.00, and a range of temperature coefficients (B) from 0.0 to 2.4% for greater consistency and reproducibility.

The meter is supplied in a hard carrying case including battery and calibration solutions.

///805	
ange pH/EC/TDS Temp	0.00 to 14.00 pH / 0 to 3999 μS/cm / 0 to 1999 ppm 0.0 to 60.0°C / 32.0 to 140.0°F
esolution pH/EC/TDS Temp	0.01 pH / 1 µS/cm / 1 ppm 0.1°C / 0.1°F
ccuracy pH/EC/TDS 225°C) Temp	± 0.01 pH / $\pm 2\%$ full scale / $\pm 2\%$ full scale ± 0.5 °C / ± 1 °F
emp. compensation	automatic, from 0 to 60°C; with ß adj. from 0.0 to 2.4%/°C
H / EC Calibration	automatic, 1 or 2 points / automatic, 1 point
robe	MA851D/1, amplified pH/EC/TDS/Temp probe (included)
nvironment	0 to 50°C / 32 to 122°F; max RH 100%
attery type / life	1 x 9V (included), approx. 300 hours of use
uto-off	after 8 minutes of non-use

Portable Lux Meter

The SM700 is provided with a light sensor connected to the meter through a coaxial cable, allowing easy measurements without any interference. By simply pressing the RANGE key, it is possible to switch among 3 ranges and choose the best resolution according to the environment to

The **SM700** lux meter has a rugged and water-resistant body for outdoor use without any problems. The 9V battery and automatic shut-off feature guarantee about 70 hours of operation.

Lux is a unit that indicates the density of light that falls on a surface. The meter mesures in Lux. To convert the reading in foot candles moltiply the reading on the display by 92.9. The meter is supplied complete with light sensor and 9V battery.



approx. 70 hours of continuous use

after 10 minutes of non-use



The SMS110 smart pH monitor allows you to continuosly monitor pH values directly in vour reservoir

Features include: user selectable set point, visual Led alarm when values go above the set point and manual calibration.

Powered by a 12 VDC adapter all smart monitors are supplied with a clog-resistant

SMS110		
Range	0.0 to 14.0 pH	
Resolution	0.1 pH	
Accuracy (@25°C)	±0.2 pH	
Set point	3.5 to 7.5 pH	
Alarm	active when measure is higher than selected set point	
pH electrode	MA911B/2 (included)	
Environment	0 to 50°C; max RH 95%	
Power supply	12 VDC (included)	

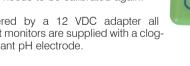
M MWCLESS SMS16 pH motor

SMS115 Smart pH Monitor Cal-test button

The SMS115 smart pH monitor allows vou to continuosly monitor pH values directly in your reservoir.

Features include: manual calibration and Cal-test function. The Cal-test button will warn the user when the electrode needs to be calibrated again.

Powered by a 12 VDC adapter all smart monitors are supplied with a clogresistant pH electrode.



12 VDC (included)

0.0 to 14.0 pH
0.1 pH
±0.2 pH
manual, 2 points through trimmer on the meter side
MA912B/2 (included)
0 to 50°C; max RH 95%

