

true[®]

science



making
pH measurement
SMART



connected

credible

accessible



no stand needed



measure



- Familiar Android tablet platform
- Live display of single and multiple pH electrodes with one tablet
- Uses any standard pH electrode with an S7 Connector
- Visible calibration information
- Easy data storage and sharing
- Warning alerts and alarms
- Stores up to 10,000 readings
- Automated fault diagnosis
- Electrode health reminder



anywhere



patented system



6 meters in 1 Choose between one large single screen meter or simultaneously view the readings of up to 6 SMART Caps at once on a single tablet.

The TRUEpH SMART Cap from TRUEscience™ is the world's first laboratory Bluetooth® pH meter and QR buffer system that harnesses the accuracy of standard laboratory grade sensors with the computing power of an Android tablet, expanding measurement capabilities, connecting to the cloud and making your readings SMART.

Technological Innovation

The TRUEscience system offers advanced features which would usually only be seen in more expensive benchtop pH meters such as logging, data storage, multiple electrode connection, alarms and user management at an affordable price.

Connected -

Using low energy Bluetooth® 4.0, the electrode communicates results wirelessly to the tablet in real time. This eliminates cables which can limit truly flexible testing in the field or on-site. Up to 6 SMART Caps can communicate with one tablet at a time, making measurement of different tests or site locations easy.

Credible -

The unique QR buffer system means you always have full traceability on calibrations. See a full history of who has calibrated, which buffers were used and what the results were at any time. Get MSDS and Certificates of Analysis for all reagents straight from the TRUEscience App for simple health and safety and quality checks.

Accessible -

The truly open system lets you use any standard electrode with an S7 connector. As well as removing the need to replace the whole unit every time, this means you can also select an electrode which is specialised for your application, like a spear tip or a flat ended electrode.

Whether you're controlling product quality, testing your site discharge for environmental compliance, checking up on your research in the lab or teaching the next generation of Scientists, you can now measure pH the SMART way.

making
measurement
SMART

Accessible



Measure Anywhere Take measurements in the field and with an effective range of meters you are now from measurements easily from locations than ever before.



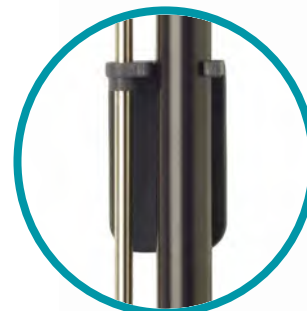
Logging The SMART Cap can log continuously and independently to a tablet and can store up to 10,000 readings before needing to download. The LED flashing indicator lets you at a glance whether the unit is taking a reading or logging.



Open Electrode System The TRUEscience pH electrode system allows you to choose from including glass, double junction and flat open ended electrodes. You can also use any other standard pH electrode with an S7 connector.



WireFree and Stand The TRUEpH is easy to use. No wires or cumbersome stands and you simply attach the SMART Cap to the side of the electrode tubes or rest it on the Stand.



Credible

Traceability The innovative QR buffer system automatically loads batch info, expiry date and re-order info into the App and even allows you to access MSDS sheets and batch calibration certificates for each buffer used.



Full Calibration Suite

Not only does the TRUEpH meter tell you when it was last calibrated, it keeps a full calibration history by user and alerts you to recalibrate using its simple step by step process at intervals you control. It will even alert you if your buffers have expired.



totally portable
range of up to 50
ee to take pH
from more
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View your log
a graph within
and s

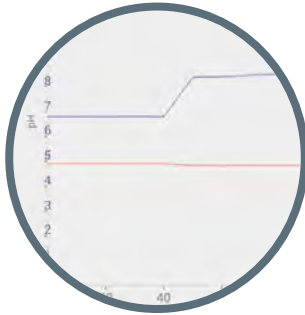




Cost Effective TRUEpH offers a real practical solution with the performance and accuracy (2 decimal places) you would expect of any serious scientific lab meter at a fraction of the cost. Using the freeTRUEscience App from GooglePlay allows you to calibrate, measure, log and more on a standard Android tablet.

Logging

Logged data as a table and as on the tablet, or easily export and the data in .csv format.



Long Battery Life The TRUEpH Cap has been designed to run for a year on a single battery in normal use or for 6 months when continuous logging .



Store and Share Enriched Readings

The app can store multiple results by user and allows you to add date, time, image, notes & GPS location tags. You can then share your results by email, Dropbox or GoogleDrive in standard .csv format for spreadsheet analysis or input to LIMS.



Connected

Alarms and Email Alerts

Using the power of the Android you can configure alarms at set pH values and be alerted immediately on the tablet as soon as the reading is outside the set limits or by email.



Consumables Re-ordering

Re-order consumables directly on your tablet through any TRUEscience registered outlet. You need never run out of calibration buffers and storage solution.



Ideal Storage!



Perfectly Conditioned The unique TRUEscience Storage Stand is the perfect resting place for your electrode keeping the membrane ready to use with minimal solution waste.

Product Ordering Information

Order Code



SMART Cap (with TRUEscience combination pH electrode double junction)

SMART Cap with TRUEscience combination double junction pH electrode/ Soaker bottle
Lithium battery, Spare battery covers colour coded (Set of 3)

1201690 (White)

1201822 (Grey)



SMART Cap (without pH electrode)

SMART Cap (no pH electrode supplied)
Lithium battery, Spare battery covers colour coded (Set of 3)

1201689 (White)

1201821 (Grey)

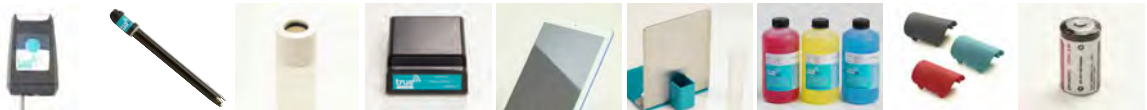


SMART Cap Complete pH meter Kit

SMART Cap with TRUEscience combination double junction pH electrode/ Soaker bottle
USB Port charger Stand for TRUEscience tablet, Bluetooth® enabled Android tablet 7"/ 8"
Storage Stand, TRUEscience QR buffers 250ml pH 4, 7 & 10, Spare battery covers colour coded x 3, Lithium battery

1201691 (White)

1201823 (Grey)



SMART Cap pH Meter Kit (without pH electrode)

SMART Cap (no pH electrode supplied), USB Port charger Stand for TRUEscience tablet
Bluetooth® enabled Android tablet 7"/ 8" Storage Stand, TRUEscience QR buffers 250ml pH 4, 7 & 10
Spare battery covers colour coded x 3, Lithium battery

1201692 (White)

1201824 (Grey)



TRUEscience pH electrode:

Combination pH electrode glass with S7 connector
Combination pH electrode double junction flat with S7 connector
Combination pH electrode double junction epoxy with S7 connector

1201575

1201574

1201711

Accessories:

Replacement Lithium battery for SMART Cap
Spare battery covers colour coded Grey, Teal, Red (Set of 3)
Spare battery covers colour coded White, Teal, Red (Set of 3)
Tablet 7"/ 8" Bluetooth® enabled Android
Storage Stand (includes storage tubes)
Spare storage tubes for storage stand
Charging tablet stand includes USB Cable
Height adjustable tablet stand, Stainless steel, non-charging
Replacement SMART Clip

1201564

1201710

1201813

1201708

1201695

1201696

1201562

1201563

1201698

Buffer solution pH 4.00 ± 0.01 @ 20°C Red
Buffer solution pH 7.00 ± 0.01 @ 20°C Yellow
Buffer solution pH 10.00 ± 0.01 @ 20°C Blue

250ml
1201459
1201458
1201460

500ml
1144885
1144955
1145008

1000ml
1144887
1144960
1145011

order online at:
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V1.0/2016



TECHNICAL SPECIFICATION


pH Range	0-14 pH units
Resolution	0.01pH , 0.1mV, 0.1°C
Meter Accuracy	+/- 0.002
Calibration points	up to 5 points
Buffer Recognition	QR Code Input
Automatic temperature compensation	0°C - 100.0°C
pH Electrode (where included)	Epoxy double junction combination pH
Electrode accuracy	+/- 0.02pH
Electrode diagnostics	Yes
mV range	+/- 1000mV
mV accuracy	+/- 0.1mV
Temperature accuracy	+/- 0.5°C
Store values	10,000 measurements/log
Battery Life	1 year normal use
Battery Type	1/2 AA Lithium Thionyl Chloride, 3.6V, 1200mA
Tablet and App requirements	See below or specified list of tested models on our website
Dimensions of Cap	L218 x W48 x D24 mm including temperature probe
Temperature probe length	130mm long
Weight	91.5 g
Operating/Storage Temperature	0-55°C
Calibration Certainty	Yes, App indicates calibration status, time and date
Electrode health reminders	Yes
Colour keyed battery covers	Yes
Multiple Cap Measurements	Yes, up to 6 simultaneously
Consumables ordering online	Yes
Any S7 connector pH electrode	Yes
Interval logging	Yes



Complete TRUEpH Package

Tablet Requirements:

The TRUEscience App has been optimised for use with 7 and 8 inch screen Android tablets. The tablet must have Bluetooth® 4.0 or later and Android 5.0 or later operating system. You will require a wifi connection for data sharing and full App functionality. The App will run in the background and will require access to GPS, Camera, Bluetooth® and sharing Apps such as GMail, Dropbox and GoogleDrive.

 EN61236-1: 2006 - Annex A 2008: 1999/5/EC Annex III
Electrostatic discharge may cause the unit to power off

 The Bluetooth® transceiver device meets the requirements for modular transmitter approval as detailed in FCC public notice DA00-1407