

pH-meter Oph218

OrigaMeter range



- ✓ **Sustainable and repairable**
- ✓ **Reliable and fast results**
- ✓ **Easy to use and simple connections**
- ✓ **Data transfers (Regressi, ExAo, Excel)**

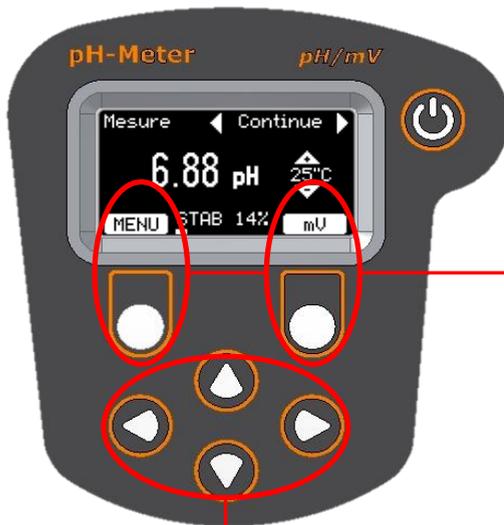
OrigaLys was founded by four R&D engineers from Radiometer company.



Power the pH-meter by pressing the button to the right of the screen

The home screen lights up, with time display

Pressing one of the keys on the keyboard, the pH/mV measurement screen in continuous mode appears:



Function keys:

Each key is associated with a function defined in a white rectangle at the bottom of the screen.

In our example the left key allows you to enter the **MENU** to access the other functions of the device. The right key allows you to switch to potential (**mV**).

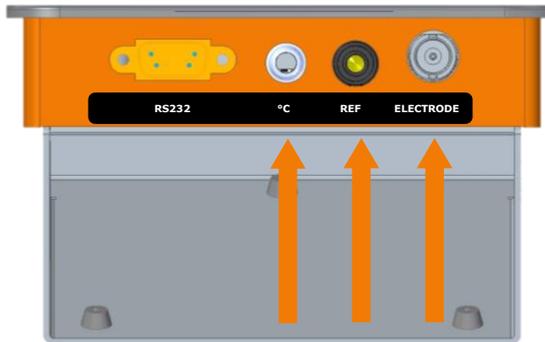
Adjustment and navigation keys:

These keys allow you to move around menus, select a setting, or adjust the value of a variable.

In our example, **horizontal** arrow keys allow you to select the **Continuous** or **Auto** measurement mode. **Vertical** arrow keys adjust the temperature value.

Connecting the electrodes

Example of using a non-combined pH electrode
Check out our various Packs on page 7



When the device is turned off, the electrodes are automatically de-connected from the electronics and can remain plugged in without the risk of being damaged.

Temperature probe

Reference:
OGT-103-7-5-CINCH-CIAL

RCA-RCA cord
Supplied with the probe

NOTE: You can use your own temperature sensor.



Reference electrode

Reference:
OGR004

Banana – S7 cord
Reference:
AR01206

Non-combined pH Electrode

Reference:
OGPH001

BNC – S7 cord
Reference:
AR01210

Connection to the ground:

The basic OpH218 allows measurements to be made in floating mode. To connect it to the earth, simply connect it to a device such as a printer, recorder or PC, which is itself connected to the earth.

Analog output and RS232 communication

Analog output

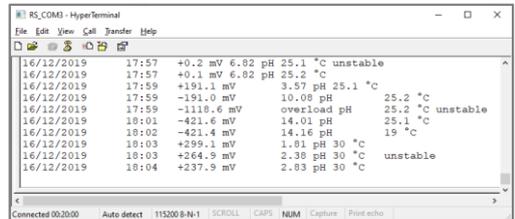
- ✓ Connecting to analog recorders
- ✓ Controlling a stirrer



ANALOG OUT

RS232 communication

- ✓ Printing results at the end of calibration
- ✓ pH-meter control



Control with HyperTerminal

USB communication and remote control

USB communication with a PC is provided by a DLL developed and provided by Originalys. Full documentation and an example of use with Microsoft Excel (pH collector) software are available for download on www.originalys.com. This allows real-time storage, display and tracing on a graph and pH/mV measurements based on time.



pH collector – Microsoft Excel

Technical Features

Measurement ranges	pH: - 9 to 23 pH
	mV: \pm 2000 mV
	°C: - 10°C to 110°C
Resolution	pH: \pm 0,01 pH
	mV: \pm 0,1 mV
	°C: \pm 0,1°C
Electrode entry impedance	> 2 x 10 ¹² Ohms
Polarization electrodes	It is possible to impose a current of 10 μ A in the connected electrode on the BNC input
Stability criterion	3 mV/min (\simeq 0,05 pH/min)
Measures	2 modes : <ul style="list-style-type: none"> • Continuous: Continuous display of pH/mV and temperature • Automatic: The pH result is frozen and memorized when the drift is below the stability criterion.
Calibration	1 to 3 points
Choosing buffers	3 modes: <ul style="list-style-type: none"> • Automatic recognition of buffers (Series: IUPAC or 4-7-10) • Handbook selection of buffers among the series IUPAC and 4-7-10 • Free by manual adjustment of pH value
Criteria for agreeing to calibration	<ul style="list-style-type: none"> • Slope: 95 to 102% • Zero-pH: 5.80 to 7.50 pH Non-blocking criteria generating a warning
Languages	French, English, Spanish, German and Italian
Display	Chart 128x64, OLED Technology, Size 60 x 30 mm
Input / Output	<ul style="list-style-type: none"> • 1 input for glass electrode or combined (BNC socket) • 1 input for reference electrode (TAKE BANANE 4 mm) • 1 input for temperature sensor (take RCA / CINCH) • 1 RS232 series port (take SUB-D 9 pins) • 1 USB 2.0 port (type B socket) • 1 analog output (take mini-DIN8)
Box	Project-resistant and dirt-resistant (INOX - PC - PMMA)
Dimensions (H x W x D)	80 x 140 x 180 mm
Weight	1 Kg
Power	2 possibilities: <ul style="list-style-type: none"> • By AC adapter 12Vdc, 1A, 12W (JACK plug) • By USB 2.0 port (type B socket)
Environmental conditions	<ul style="list-style-type: none"> • Temperature of use: 5 to 40°C • Relative use humidity: 20 to 80%



Reference electrodes

Other

Models	① OGR005 Type REF321	② OGR004 Type REF421	③ OGR006 Type XR300	④ OGR003 Type XR110	⑤ D11OGL008 Type AL120
Dimensions	ø 8 x 103 mm	ø 8 x 103 mm	ø 8 x 120 mm	ø 8 x 120 mm	ø 8 x 140 mm
Body	Glass	Glass	Glass	Glass	Glass
Reference systems	Ag/AgCl	Calomel	Ag/AgCl	Calomel	-
Electrolyte	KCl 3M with saturated AgCl	Saturated KCl	KCl 3M with saturated AgCl	Saturated KCl	-



Combined pH electrodes

Non-combined pH electrodes

Models	① OGP201 Type pHC2401-8	② OGP202 Type pHC3001	③ OGP203 Type pHC3005	④ OGP001 Type pHG301	⑤ OGP002 Type pHG311
pH range	0 - 12	0 - 12	0 - 12	0 - 12	0 - 14
T°C range	-5 to 80°C	-5 to 80°C	-5 to 80°C	-5 to 80°C	-5 to 80°C
Dimensions	ø 12 x 103 mm	ø 12 x 103 mm	ø 8 x 103 mm	ø 8 x 103 mm	ø 8 x 103 mm
Body	Glass	Glass	Epoxy	Glass	Glass
Reference systems	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl
Electrolyte	KCl 3M with saturated AgCl	KCl 3M with saturated AgCl	KCl 3M with saturated AgCl	Saturated KCl	Saturated KCl

See the full list of electrodes on
www.origalys.com

pH-meter Packs

Non-combined Calomel Pack

pH-meter OpH218



- ✓ Two cables
- ✓ One pH electrode
- ✓ One Calomel reference electrode

Non-combined Ag/AgCl Pack

pH-meter OpH218



- ✓ Two cables
- ✓ One pH electrode
- ✓ One Ag/AgCl reference electrode

Epoxy Combined Pack

pH-meter OpH218



- ✓ One cable
- ✓ One combined pH electrode in epoxy

Glass Combined Pack

pH-meter OpH218



- ✓ One cable
- ✓ One combined pH electrode in glass

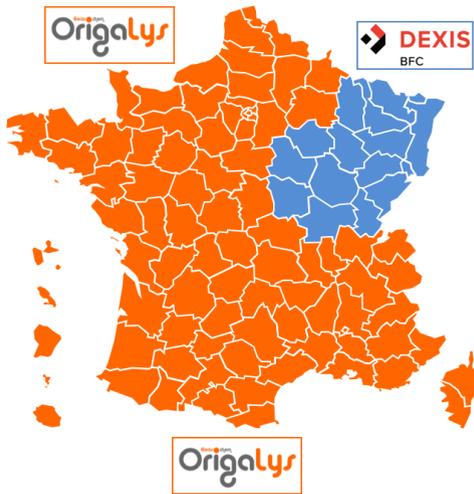
Teaching Pack



OrigaStat – OGS080: Potentiostat, Galvanostat & EIS

- Highlighting slow and fast systems
- Observation of the diffusion level and the influence of agitation with the rotating electrode
- Study of the field of electrochemical inertia of solvent
- Study of the concepts of batteries, electrolyters and accumulators
- Go further in TIPE with corrosion studies

➤ The team in France



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Please, contact us directly

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