



# JBL PROAQUATEST CO<sub>2</sub>-pH Permanent

Permanent test to determine the acid/CO<sub>2</sub> content

Suitable for:



- Simple and reliable monitoring of the aquarium water values. Permanent direct measurement of the pH value and carbon dioxide content in freshwater aquariums
- Permanent test for fertiliser control: place reagent in the permanent test device and attach to the aquarium pane, using suction cups. Compare reagent colour with colour scale sticker and read off value
- Indication of pH value (6.4 – 7.8) and CO<sub>2</sub> content
- You will find detailed information and troubleshooting tips about water analysis on the JBL website in Essentials/Aquarium
- Package contents: 1 CO<sub>2</sub>-pH permanent test, display vessel with suction cup, 1 reagent (+ 1x refill) and colour scale sticker. Reagent refill and indicators separately available

You may also be interested in

You can find a complete overview here: <https://www.jbl.de/qr/24138>



## JBL PROFLORA pH-Control Touch

Measurement and control computer for control of CO<sub>2</sub>/pH





# JBL PROAQUATEST CO2-pH Permanent

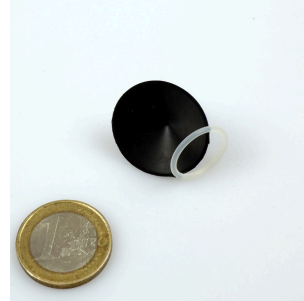
 Spare parts



JBL component set for water tests



JBL CO2 Permanent colour charts



Spare part kit for JBL CO2 Permanent  
Suction cup & seal ring for the CO2 permanent test



JBL PROAQUATEST range colour charts





# JBL PROAQUATEST CO2-pH Permanent



## Product information

This permanent indication test uses colouration to show the aquarist the pH value and the CO2 content of the aquarium water at any time.

You can read off whether the pH value is within the optimal range and whether the plants have sufficient CO2 as their main nutrient available during the day 24/7.

How exactly does the test work?

The CO2 dissolved in the aquarium water diffuses in the container of the permanent test, passes into the air column containing the indicator liquid and then dissolves in the liquid. This creates a pH value, which results in the discolouration of the indicator liquid. The colour displayed corresponds to a certain pH-value and, depending on the carbonate hardness of the water, you can read off whether the resulting CO2 content is too high, too low, or optimal.

If another pH-lowering or increasing substance (e.g. pH-Minus) apart from CO2 is added to the aquarium water, it cannot diffuse through the air column in the permanent test and thus does NOT affect the indicator liquid. In this case the pH value displayed would not be correct. It only shows correct values, when there are NO other pH-influencing substances in the water besides CO2.

How long does it take until the test displays correctly?

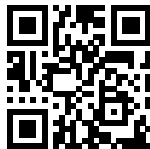
Due to its design the test is somewhat sluggish, because the CO2 gas needs to first "migrate" through the air column in the test vessel, then into the indicator liquid and can only then be displayed. It can therefore take up to one hour until the test shows the current CO2 content of the aquarium water for the first time.

Recommended CO2 content:

Freshwater aquarium (community aquarium): 15-35 mg/l;

Lake Malawi-Tanganyika aquarium: 4-10 mg/l;

Plant aquarium with few fish (aquascaping): 20-35 mg/l

| Further information   |   |
|-----------------------|---|
| FAQ                   | ✓   |
| Blog                  | ✓   |
| Press                 | ✓   |
| Laboratory/calculator | ✗   |
| Worth reading         | ✓   |
| Spare parts           | ✓   |
| Video                 | ✓   |
| GarantiePlus          | ✗   |
| Instructions          | ✓   |
| QR code               |  |





# JBL PROAQUATEST CO2-pH Permanent



## Product details

| Article data             |                                  |   |
|--------------------------|----------------------------------|---|
| Product name             | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.                 | 2413800                          | 2413900                                 |
| EAN number               | 4014162241382                    | 4014162241399                           |
| EAN as barcode           |                                  |   |
| For                      | 9-12 MON                         | Refill                                  |
| -                        | -                                | -                                       |
| Expiry months            | 48                               | 48                                      |
| RRP incl. VAT            | 21,04 €                          | 10,66 €                                 |
| Base price               | -                                | -                                       |
| Nominal filling quantity | -                                | -                                       |
| Base quantity            | 1                                | 1                                       |
| Gross weight             | 95 g                             | 48.5 g                                  |
| Net weight               | 51 g                             | 21 g                                    |
| Weight change            | -                                | -                                       |

| Disposal                |                                  |   |
|-------------------------|----------------------------------|---|
| Product name            | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.                | 2413800                          | 2413900                                 |
| Green dot               | ✓                                | ✓                                       |
| Group electronic waste  | -                                | -                                       |
| Disposal weight         | -                                | -                                       |
| Battery type            | -                                | -                                       |
| Battery return          | -                                | -                                       |
| Battery rechargeable    | -                                | -                                       |
| Disposal weight battery | -                                | -                                       |
| Non-returnable glass    | -                                | -                                       |
| PPK                     | 27 g                             | 7.5 g                                   |
| Plastic small           | 20 g                             | 20 g                                    |
| Plastic large           | -                                | -                                       |
| Disposal weight metal   | 0 g                              | 0 g                                     |

| Features     |                                  |   |
|--------------|----------------------------------|---|
| Product name | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.     | 2413800                          | 2413900                                 |





| Features             |   |   |
|----------------------|---|---|
| Animal species       | Armored catfish, Arowana, Axolotl, Barbels, Bettas, Bichirs/ reedfish, Blowfish, Catfish, Cichlids (South America), Clawed frogs, Clawed shrimps, Crayfish, Crustaceans, Danions, Discus, Dwarf crayfish, Dwarf shrimps, Flowerhorn, Gill maggots, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Mussels, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, blood parrot cichlids, freshwater butterflyfish | Armored catfish, Arowana, Axolotl, Barbels, Bettas, Bichirs/ reedfish, Blowfish, Catfish, Cichlids (South America), Clawed frogs, Clawed shrimps, Crayfish, Crustaceans, Danions, Discus, Dwarf crayfish, Dwarf shrimps, Flowerhorn, Gill maggots, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Mussels, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, blood parrot cichlids, freshwater butterflyfish |
| Animal size          | For all animal sizes  | For all animal sizes  |
| Animal age group     | All aquarium fish   | All aquarium fish   |
| Volume of habitat    | -   | -   |
| Material             | Reagent(s) in plastic bottle(s) and/ or glass bottle(s) + plastic and/or glass accessories. REFILL: reagent (s) without accessories.  | Reagent(s) in plastic bottle(s) and/ or glass bottle(s) + plastic and/or glass accessories. REFILL: reagent (s) without accessories.  |
| Food type            | -   | -   |
| Colour               | white / transparent / black   | white / transparent / black   |
| Dosage               | See instructions  | See instructions  |
| Transport conditions | -   | -   |





# JBL PROAQUATEST CO2-pH Permanent

| Electronic label / illuminant |                                  |   |
|-------------------------------|----------------------------------|---|
| Product name                  | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.                      | 2413800                          | 2413900                                 |
| Ambient temperature           | -                                | -                                       |
| Start time                    | -                                | -                                       |
| Mercury                       | -                                | -                                       |
| Tube length                   | -                                | -                                       |
| Service life                  | -                                | -                                       |
| Lumen                         | -                                | -                                       |
| CRI value                     | -                                | -                                       |
| Dimmable                      | -                                | -                                       |
| Switching cycles              | -                                | -                                       |
| PAR value                     | -                                | -                                       |
| Energy efficiency class       | -                                | -                                       |
| UV-A                          | -                                | -                                       |
| UV-B                          | -                                | -                                       |
| UV-C                          | -                                | -                                       |
| Colour temperature            | -                                | -                                       |
| Base designation              | -                                | -                                       |

| Technical data                |                                  |   |
|-------------------------------|----------------------------------|---|
| Product name                  | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.                      | 2413800                          | 2413900                                 |
| Range in litres               | -                                | -                                       |
| Range from - to               | -                                | -                                       |
| Range in days                 | -                                | -                                       |
| Range tank length             | -                                | -                                       |
| Output in watts               | -                                | -                                       |
| Output per hour               | -                                | -                                       |
| Output per day                | -                                | -                                       |
| Height                        | -                                | -                                       |
| Length                        | -                                | -                                       |
| Width                         | -                                | -                                       |
| Diameter                      | -                                | -                                       |
| Voltage                       | -                                | -                                       |
| For                           | -                                | -                                       |
| T8 26mm (watt)                | -                                | -                                       |
| T5 16mm (watt)                | -                                | -                                       |
| Size                          | -                                | -                                       |
| Content for                   | -                                | -                                       |
| Filter container volume       | -                                | -                                       |
| Volume filter media           | -                                | -                                       |
| Hose connections pressure/out | -                                | -                                       |
| Hose connections suction/in   | -                                | -                                       |





| Technical data |   |   |
|----------------|---|---|
| Delivery head  | - | - |





# JBL PROAQUATEST CO2-pH Permanent

|                  |                  |
|------------------|------------------|
| Food type        | -                |
| Sub product type | -                |
| Dosing           | See instructions |







## Additional information for the specialist trade sector

| Article data         |                                  |   |
|----------------------|----------------------------------|---|
| Product name         | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.             | 2413800                          | 2413900                                 |
| VAT                  | 19%                              | 19%                                     |
| Sales unit (SU)      | 3                                | 1                                       |
| Volume packaging     | 0.8l                             | 0.57l                                   |
| Dimensions (l/w/h)   | 43 mm/106 mm/175 mm              | 30 mm/110 mm/175 mm                     |
| Layer                | 240                              | 800                                     |
| Pallet               | 720                              | 2400                                    |
| Category of products | 1                                | 1                                       |
| Customs tariff       | 38221100                         | 38221100                                |
| Country of origin    | DE                               | DE                                      |
| Type of packaging    | Faltschachtel/Karton             | Skin / blister card packaging           |

| PU 1 data        |                                  |   |
|------------------|----------------------------------|---|
| Product name     | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.         | 2413800                          | 2413900                                 |
| PU 1 material    | film gr                          | cardboard gr                            |
| PU 1 weight      | 3.5 g                            | 660 g                                   |
| PU 1 length      | 106 mm                           | 580 mm                                  |
| PU 1 width/depth | 130 mm                           | 390 mm                                  |
| PU 1 height      | 180 mm                           | 310 mm                                  |

| PU 2 data        |                                  |   |
|------------------|----------------------------------|---|
| Product name     | JBL PROAQUATEST CO2-pH Permanent | JBL PROAQUATEST CO2-pH Permanent REFILL |
| Art. No.         | 2413800                          | 2413900                                 |
| PU 2 material    | cardboard gr                     | None                                    |
| PU 2 weight      | 540 g                            | -                                       |
| PU 2 length      | 400 mm                           | -                                       |
| PU 2 width/depth | 400 mm                           | -                                       |
| PU 2 height      | 350 mm                           | -                                       |

| Trade data        |  |  |
|-------------------|--|--|
| Product name      | JBL PROAQUATEST CO2-pH Permanent                               | JBL PROAQUATEST CO2-pH Permanent REFILL                        |
| Art. No.          | 2413800  | 2413900  |
| Till receipt text | Test CO2 perma   | Refill CO2 perm  |
| Shelf placement   | Test shelf, water treatment troubleshooting, CO2 fertilisation | Test shelf, water treatment troubleshooting, CO2 fertilisation |