



# 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

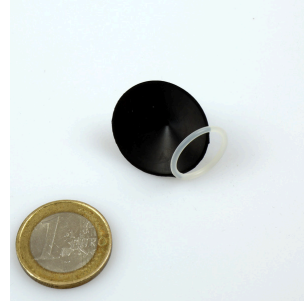
 Spare parts



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?

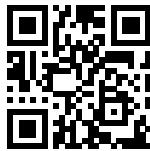
Due to its design the test is somewhat sluggish, because the CO2 gas needs to first "migrate" through the air column in the test vessel, then into the indicator liquid and can only then be displayed. It can therefore take up to one hour until the test shows the current CO2 content of the aquarium water 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	21,57 €	10,93 €
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	22%	22%
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