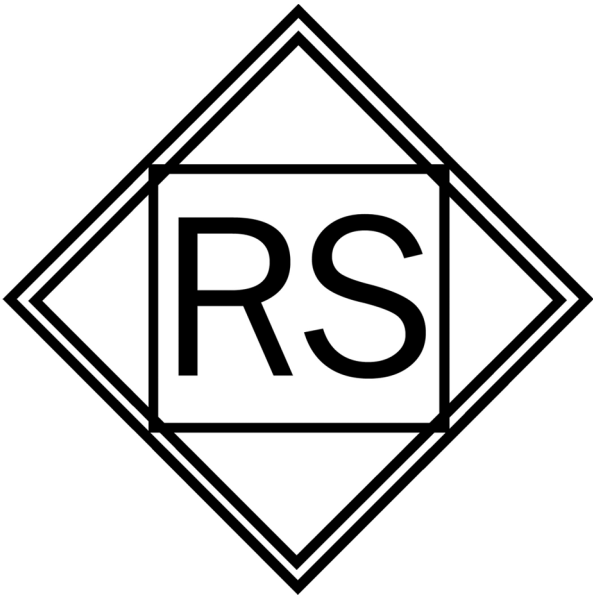


# roger schult

## Vintage
## 3-Band EQ W2395c

## Operating Manual
## Quick Guide

W2395c Operating Manual for api ® 500 system Version 02.2022
**roger schult** D 50374 Erftstadt Peter-May-Str. 104

## Table of Contents

**Page**


**2** **Table of Contents**

**3** **Introduction**
Safety Notices

**4** **Product Details**
Controls and Operation
The parametric mid-band EQ
The Baxandall EQ

**5** **Installation**
Installing the W2395c module in an api ® 500 system
Included items and recycling

**6** **Specifications**

**7** **Compatibility**

**8** **Manufacturer, contact and support**


api ® is a registered trademark of AUTOMATED PROCESSES INC., NEW YORK, USA

**Dear customer, we sincerely thank you for purchasing our product**

The W2395c module for the api ® 500 system that you have purchased was manufactured according to highest manufacturing standards adhering to all European and national guidelines currently in effect. EMV compatibility has been certified and the appropriate records are available at the manufacturer. Upon shipment, the product left the manufacturer in perfect working condition according to factory specifications.

In order to maintain the factory specs and guarantee safe operation in the future, we advise that you read the included operating manual as well as further safety documents (see below) - they contain important notes for operating and handling your product. When passing the unit on to third parties, please also make them aware of these documents.

Any use outside of the applications described in this manual may cause damage to the product and may further imply to hazards such as electrical shorts, fire, electric shocks, etc. The product must not be altered or modified. The enclosed safety and hazard notices about this product refer to the installation and operation in an api ® 500 system. Consequentially, there may be relevant guidelines and regulations that affect operation, even if they don't apply to our product directly. Installation and operation should therefor be carried out by trained personell only.

If you should have technical questions to this product, please contact our technical support team. You will find the contact details in the appendix of this manual.

## Controls and Operation

## The parametric mid-band EQ

**Gain (rotary control)**
The module has one rotary gain control with a range of -10 dB to + 10 dB.

**Frequency (rotary control)**
The frequency control adjusts the filter frequency between 155 Hz and 3.5 kHz.

**Q-factor (switch)**
A three position switch adjusts the quality factor of the bandpass filter between Q = 0.4 (wide), Q = 0.7 (medium), and Q = 1.5 (narrow).

## The Baxandall EQ

**Gain (fader)**
Both the high and the low frequency bands have their own fader for adjusting the gain of the EQ, covering a range of +/- 12 dB.

**Frequency & Bypass (switch)**
The three-position switches for the Baxandall EQ bands allow setting the frequency to 80 Hz and 110 Hz in the low frequency range, as well as 2 kHz and 5 kHz in the high frequency band. The center position of the switches deactivates the respective EQ bands.

**“on”-switch**
The “on”-switch allows removing the EQ from the signal path by means of a relais (“hard bypass”). An illuminated switch indicates that the EQ is inserted and active.

## Installation in an api ® 500 system

**Instructions for installing the W2395c filter module**

Please note that electric potential differences and electrostatic discharges (ESD) can destroy your api ® 500 system and the W2395c module. Please make sure to discharge any potential electrostatic charges by touching a plumbing pipe, heating pipe or any other piece of metal connected to earth before installing the W2395c module. Neutral electric potential is a prerequisite to any installation or reconfiguration of electronics modules and their interconnections.

Turn off your api ® 500 rack or console and all connected devices. Remove any blank panels that might cover the slot you have chosen for installation of the module.

Center the module between the two threaded mounting holes with the shield of the module frame facing to the left and evenly insert the module into the free slot without applying brute force. Secure the W2395c module with both screws. The module is ready for operation once the appropriate connections in the rear of the api ® box have been taken care of.

## Included items and recycling

Please stay eco-friendly and dispose of all defective and obsolete devices at a certified collection facility according to local laws and regulations.

**English**
The crossed out wheels bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream. To prevent possible harm to the environment or human health please separate this product from other wast streams to ensure that it can be recycled in an environmentally sound manner. For more details on available collection facilities please contact your local waste management office or the retailer where you purchased this product.

**Deutsch**
Der Aufkleber mit durchgekreuzter Mülltonne an diesem Produkt weist darauf hin, dass dieses Produkt nicht im normalen Hausmüll entsorgt werden darf. Zur Vermeidung einer möglichen Beeinträchtigung der Umwelt oder der menschlichen Gesundheit und um zu gewährleisten, dass es in einer umweltverträglichen Weise recycelt wird, darf dieses Produkt nicht in den Hausmüll gegeben werden. Informationen zu Entsorgungseinrichtungen erhalten Sie bei der zuständigen Behörde oder dem Geschäft, in dem Sie dieses Produkt erworben haben.

**Specifications**

Tentative spec sheet, 02/2022

| | |
|---|---|
| Low band EQ, adjustable frequency | 80 Hz / filter bypass / 110 Hz via switch |
| Gain, continuously variable | +/- 12 dB range via fader |
| Mid band frequency | 155 Hz to 3.5 kHz, continuously variable |
| Gain, continuously variable | +/- 10 dB range via rotary control |
| Q-factor, 3-position switch | narrow, wide, medium<br>(Q-factor 1.5 / 0.4 / 0.7) |
| High band EQ, adjustable frequency | 2.0 kHz / filter bypass / 5.0 kHz |
| Gain, continuously variable | +/- 12 dB range via fader |
| on-switch | Enable / disable filter module<br>hard bypass |

**Input (electronically balanced)**

| | |
|---|---|
| Reference input level | +6 dBu |
| Maximum input level with linear setting | +15 dBu |
| Input impedance | 10 kOhm |

**Output (electronically balanced)**

| | |
|---|---|
| Reference output level | +6 dBu |
| Maximum output level | +22 dBu / (0.002% THD+N) |
| Output impedance | 40 Ohm |
| Gain at linear setting | 0 dB at 1 kHz (+0.2 / -0.2 dB) |
| Signal-to-noise ratio (UWTD) | 82 dB |
| Signal-to-noise ratio (WTD | 86 dB |
| Harmonic distortion | THD+N / 0 dBu 0.007%<br>THD+N / 6 dBu 0.003% |
| Frequency range | 20 Hz - 40 kHz (+/- 0.1 dB) |
| Delay time of hard bypass relais | max. 3 ms |
| Power supply | +/- 16 V via api ® -system<br>+ max. 110 mA / -16V max. 70 mA |
| Module dimensions | 115 mm x 172 mm (height x depth) |
| Faceplate dimensions | 19" / 3 RU, 1.5" x 5.25" (width x height) |
| Faceplate finish | Aluminum, black anodized |
| Weight | 0.311 kg |

**Compatibility**

The compatibility certification records for this product are available upon request from the manufacturer.

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## Manufacturer

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3-Band EQ W2395c