

Operating Instructions

Master Tuner 3000

for Serial Resonance Vibration systems

Version V 2.6



swiss made by

apsonic GmbH

info@apsonic.com

Table of Contents

2	Table of Contents
3	Function of the Tune Master 3000
4	Technical Data
5	Installing of the unit
6	Start up Menu
7	Frequency scanning Menu
8 - 9	General Settings Menu
10	Standard Initialisation

Function of the Master Tuner 3000

The Master Tuner is easy to use tuning meter for manufacturing of ultrasonic horns. The unit can handle vibration systems in the range of 10000 – 90000 Hz.

After you have set the scanning range the Master Tuner 3000 is scanning the set range.

You only need to press start. The unit is scanning automatically !

It will display up to four resonant points within the range. Each point got an frequency and impedance information.

The best resonant point will be displayed in big letters.

Technical data

Master Tuner 3000

Size :	W 155 x L 210 x H 100
Weight :	1100g
Voltage :	12 V DC / 1A
Frequency Range :	10.000 – 89.999 kHz
Resolution :	1 Hz
Accuracy :	1 Hz
Display :	LCD 160 x 100 with backlight
Keyboard :	19 keys

Power supply

Size :	W 55 x L 100 x H 35
Weight :	200g
Voltage :	90 – 240 V / 50 – 60 Hz
Output :	12 V DC / 1.3 A

Cable

Type :	Coax RGU 58
Length :	1 m
Connector Master Tuner side :	Coax
Connector vibration system side :	Crocodile clamps

Other cables on request.

Installing of the unit

Check the shipment carefully. The Master Tuner 3000 contains the following items.

- Master Tuner 3000
- Power supply 12 V DC
- Coax cable
- Instruction Manual

Please read this manual careful before using this frequency scanner.

Connecting cables

Switch the unit off.

Connect the Coax Cable to the vibration system.

Connect the power supply to **ST1** (8 pin mini DIN) on the Master Tuner 3000.

Plug in the mains plug to the power supply.

Activate the mains switch **S1** on the Master Tuner 3000.

The unit is ready to use.

The power supply can be operated with 90 – 240 V AC / 50 - 60 Hz.

Start up Menu

*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*								
*																									*									
*							M	A	S	T	E	R		T	U	N	E	R		3	0	0	0		*									
*																									*									
*								V	e	r	s	i	o	n		2	.	6							*									
*																									*									
*																									*									
*							M	a	d	e		i	n		S	w	i	t	z	e	r	l	a	n	d		b	y		*				
*																													*					
*																a	p	s	o	n	i	c							*					
*																													*					
*								C	o	n	t	a	c	t	:		i	n	f	o	@	a	p	s	o	n	i	c	.	c	o	m		*
*																														*				
S	c	a	n	n	i	n	g					S	e	t	t	i	n	g	s									R	a	n	g	e		

F1	F2	F3
----	----	----

Press **F1** to go to the frequency scanning menu.

Press **F2** to go to general settings menu.

Press **F3** to go to the frequency range setting menu.

