

# ULTRASONIC GENERATOR

The communication professional  
Power is nothing without control.

*pro*  
**agm**



**rinco**<sup>®</sup>  
ultrasonics

AROUND YOU EVERY DAY

NEW

# AGM Pro series – The communication PROfessional



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Ultrasonic generators from the AGM Pro series are designed for installation in **automated lines, special purpose machines** and **automated welding systems**.

They reliably perform ultrasonic welding tasks on thermoplastics and ultrasonic cutting tasks on technical textiles and food. Thanks to their slim design, they can be incorporated into small spaces in electrical cabinets. They are equipped with an optimised cooling system for this purpose.

Thanks to **fieldbus interfaces** and the **ProConnect web application**, ultrasonic generators are the ideal partners for your **Industry 4.0** concept.

## AGM Pro

**KHZ** Operating frequency:

20 / 30 / 35 / 40 / 70 kHz

Maximum output power in watts:

100 / 400 / 500 / 750 / 800 / 900 / 1000 /  
1500 / 2000 / 3000 W



Amplitude:

Adjustable from 15–100%,  
can be altered in increments of 1%

Power supply:

230 V AC  $\pm$  10%, 50 / 60 Hz  
24 V DC (separate supply for the control unit)



Weight:

4 kg

# AGM Pro series – At a glance

## 3.5" TOUCH DISPLAY

The generator is operated via the display. This is where **user management** plays an important part – while operators only have read rights, technicians have both read and write access rights.



## DATA TRANSFER

You can use the USB port to **back up**, restore or copy parameter data sets from device to device. You can also save the **current welding data** – either continuously or at the end of each welding process. Each data set has a **timestamp**.

The USB port can also be used to update the software.

## FURTHER COMMUNICATION INTERFACES

- RS485
- Digital and analogue inputs
- Digital and analogue outputs

## PROTECTED CABLE GUIDE

Thanks to the swivelling cover, the cables are protected from external influences.

## OPTIMISED COOLING MANAGEMENT

A fan ensures a cool working environment. The filter mats can be exchanged.

## INTERCHANGEABLE MODULES

The following **certified\* fieldbus interfaces** make it easy to integrate the generator into an existing system:

- PROFINET\*
- PROFIBUS
- DeviceNet\*
- EtherNet/IP\*
- EtherCAT\*
- CANopen\*

## PROCONNECT

You can access the internal web server via the Ethernet port and configure parameters, edit data sets, **monitor the generator in real time** and keep an eye on the current parameters and settings via the **ProConnect web application**. You can also use ProConnect to perform **remote maintenance**.

*pro*  
**connect**

## TWO INSTALLATION OPTIONS

The generator can be installed in two different positions (to the side or the rear of the system) with the same bracket.

## FIELDS OF APPLICATION



**AUTOMOTIVE**



**HIGH-TECH**



**PACKAGING**



**FOOD**



**NON-WOVEN & TEXTILE**



**MEDICAL**



**HOUSEHOLD**



**COSMETICS**

## OPERATING MODES:

**CONTINUOUS  
TIME MODE  
ENERGY MODE  
TIME AND ENERGY  
TIME OR ENERGY  
CONTACT CUT-OFF**



# AGM Pro series – Ultrasonic generators

## FULFILS THE HIGHEST QUALITY REQUIREMENTS

### THE HIGHEST LEVELS OF REPRODUCIBILITY

Thanks to the option to store up to **8 parameter data sets**.

### 6 OPTIONAL WELDING MODES

Thanks to the multitude of welding modes, you can find the right setting for every application, meaning that perfect welding is guaranteed. The following welding modes are available for ultrasonic generators from the AGM Pro series:



Continuous



Time mode

**W/S**

Energy mode



**+ W/S**

Time and energy



**/ W/S**

Time or energy



Contact cut-off

### CERTIFICATIONS

All AGM Pro series ultrasonic generators have the following certificates and approvals:

- NRTL Certification cTUVus (for USA and Canada)
- SEMI S2 Certificate
- CB Test Certificate
- CE marking

### CONTROL

Via the system's own PLC.

### SOFTSTART AND SOFTSTOP FUNCTION

To gently **augment and attenuate the oscillations** of complex horns.



**3.5" TOUCH DISPLAY**  
Displays the current status of settings.



**EASY ACCESS**  
The F1 and F2 fuses are easy to access on the bottom of the generator.

# AGM Pro series

## PROCONNECT – User-friendly input options

Thanks to the integrated **touch display** and the **ProConnect web application**, you can easily configure parameters and edit data sets. ProConnect also displays the current values of the welding process as a graph, allowing you to monitor the current welding process on your PC or mobile device **in real time**.

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The screenshot shows the ProConnect web application interface. At the top, there's a navigation bar with 'rinco ultrasonics' logo and tabs for 'Results', 'Parameters' (active), 'Settings', and 'Maintenance'. Below this is a sub-navigation bar with 'Select', 'Edit' (active), 'Copy', and 'Backup'. The main content area is titled 'Name' and contains a 'Parameter Set Number' field with value '1', a 'Parameter Set Name' field with value 'Door panel welding', and a 'Reset' button. On the left, there's a 'Live' status panel showing 'Status US' as 'ready' and 'Error' as 'none'. Below this are input fields for 'Power' (1000 W), 'Power' (50 %), 'Frequency' (20 Hz), 'Time' (80 ms), 'Energy' (300 Ws), and 'Dataset' (1). On the right, there are two panels: 'Amplitude Settings' with fields for 'Booster gain' (1:1.5), 'Horn gain' (1:1), 'Amplitude mode' (Internal), 'Amplitude' (80 %), and 'Amplitude' (22 μm); and 'Welding mode and limits' with a 'Welding mode' dropdown set to 'Time', and fields for 'Time' (80 ms), 'Energy' (300 Ws), 'Energy min.' (100 Ws), and 'Energy max.' (800 Ws).

## QUALITY CONTROL

The ultrasonic generators from the AGM Pro series can be used to set various **limits** that issue a warning or error message if they are breached.

## DIGITAL ERROR CODING

Errors are split into the Generator, Oscillator system and Limits groups to facilitate troubleshooting.

**COME AND DISCOVER  
THE OUTSTANDING  
QUALITY OF RINCO  
PRODUCTS FOR  
YOURSELF.**

## RELIABLE

RINCO products operate very **reliably** and have a **long service life**.

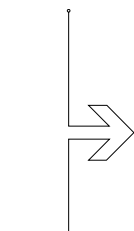
## SAVE TIME

Our products are practically **maintenance-free**.

## GLOBAL SERVICE

Our **global network** is always on hand should your equipment ever require servicing. Our employees and partners are available to provide you with comprehensive on-site support before, during and after purchase. Here at RINCO, you can expect first-class service.

**WE ARE  
FOCUSED  
COMMITTED  
GLOBAL  
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