

ULTRASONIC EQUIPMENT

Adaptive auto-tunable digital ultrasound technology

Advanced functionality with various process control levels and options

This ultrasonic generator has been developed using the latest full digital, micro-processor control and direct digital synthesis (DDS) technologies to allow greater overall performance and stability.

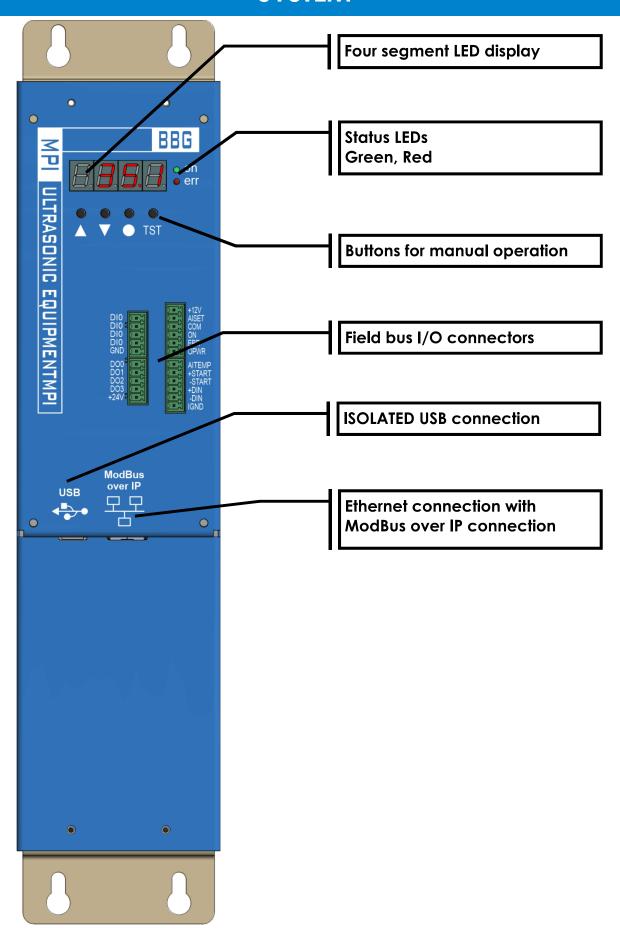
Thank you for choosing our product!

The information contained in this brochure has been prepared with the utmost care by our professionals and serves as a description of the product without any liability for the purposes of commercial law.

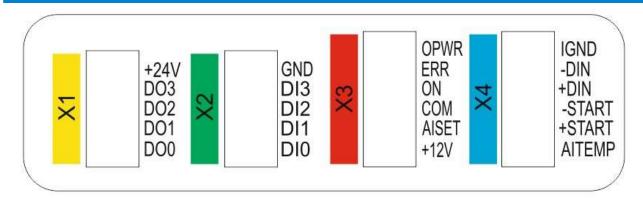
This information does not release you from the obligation of self-assessment and verification.

We reserve the right to change product specifications without notice.

SYSTEM



FIELD I/O



X1	
PIN	DATA
+24 V	EXTERNAL POWER SUPPLY FOR OUTPUTS
DO3	DIGITAL OUTPUT 3
DO2	DIGITAL OUTPUT 2
DO1	DIGITAL OUTPUT 1
DO0	DIGITAL OUTPUT 0

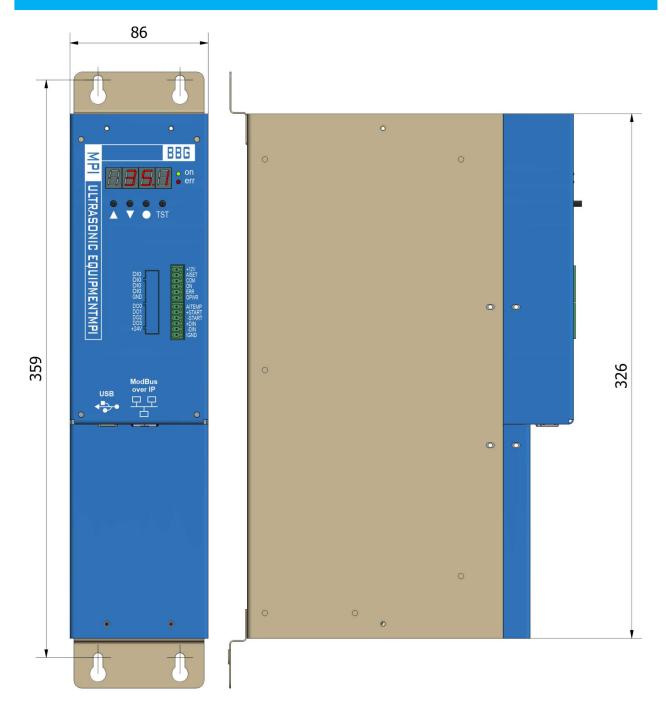
X2	
PIN	DATA
GND	EXTERNAL GND SIGNAL FOR INPUTS
DI3	DIGITAL INPUT 3
DI2	DIGITAL INPUT 2
DI1	DIGITAL INPUT 1
DI0	DIGITAL INPUT 0

FIELD I/O

X2		
PIN	DATA	
OPWR	Analog output voltage, proportional to the power output of between 0 and 10 V (= 0 – 100 % power output) is available. Reference point = "GND".	
ERR	Digital output of an internal opt. coupler. This opt. coupler reports generator malfunctions.	
ON	Digital output of an internal opt. coupler. If the ultrasonic generator has been switched on and is emitting HF voltage (i.e. there is no malfunction), an internal opt coupler is closed.	
СОМ	Shared in/output for the internal opt coupler "ON" and "ERROR"	
AISET	By connecting a voltage between 5V and 10 V, the amplitude of the generator can be set between 50% and 100% of its nominal amplitude.	
+12V	A voltage of 12 V is available at this output. This voltage can be loaded with max. 100 mA.	
X4		
PIN	DATA	
IGND	Internal GND referent TO AISET and AITEMP	
- DIN	Digital input signal (-) for external STOP such as limit switch or reassure sensor	
+DIN	Digital input signal (+) for external STOP such as limit switch or pressure sensor	
- START	Digital input signal (-) for external START such as push button or PLC signal	
+START	Digital input signal (+) for external START such as push button or PLC signal	
AITEMP	Analog input signal referent to IGND for external temperature sensor 0-10 VDC = 0-100 °C	

OPERATION

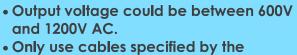
FRONT PANEL



- **LED** Lights up **green** when generator is switched on and works properly. Lights up **red** in the event of an error.
- Button UP▲ and DOWN▼ For moving up and down to select/change parameter and between menu windows.
- Button Menu - Multifunction button :
 - By pressing the button MENU you can change a parameter on the current window;
 - By press + hold for 5 seconds you will WRITE TO MEMORY all present settings of the generator.
- **Button TST** Starts generator according to the selected functionality in display-2 (see page 9)

HF OUTPUT

ATTENTION



- Only use cables specified by the manufacturer.
- Use only shielded transducer connection cables.
- Connect the shielding to the PE conductor on the generator side.
- Only use cables with sufficient cross-section.
- Minimum cross-section: 1.5 mm2.



• HF Output connector is a Lemo : ERA.1S.250.CTL

TECHNICAL SPECIFICATIONS		
PARAMETERS	DATA	
FREQUENCY	35 kHz	
OPERATING VOLTAGE	230 V	
POWER CONSUMPTION	MAX 10 A	
MAXIMUM OUTPUT	2000 W	
FUSE PROTECTION	16 A	
PROTECTION CLASS	IP 20, IEC 60 529, EN 60 525	
OPERATIONG TEMPERATURE RANGE	-10 to +40°C	



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