



MECASONIC[®]
Plastic Welding Solutions

Pulse[®]

TOUCH

30|10

ULTRASOUND GENERATOR



ULTRASONS
ULTRASONIC

PULSE TOUCH

Summary of Operating Properties

- Maximum load at full power: 1 000 watts
- Frequency: 30 KHz
- Control concept with touch interface, with direct connection to a controller via digital, analogue and optional RS485 bus inputs/outputs.
- 24VDC integrated power supply unit (with integrated 1.25 amp fuse)
- 24VDC digital inputs and outputs for controlling by the controller
- Selection of amplitude by compatible 0-10V analogue input (100%-40%)
- Image of the power delivered by analogue output 0-6V
- Digital error coding on 24VDC outputs (generator error, acoustic module error, limit error)
- Assembly controlled by digital processing (DSP)
- Digital PLL to adjust the frequency
- Maximum length of the HV coaxial cable: 15 m
- User dedicated 24V 4 inputs and 4 outputs, and/or error codes.

Functionalities

- Time mode (accurate to 10ms) with energy limits
- Energy mode (accurate to 1 J) with time limits
- Continuous mode with power limits (accurate to 1 W)
- Mixed time AND energy mode
- Mixed time OR energy mode
- RWS (Reactive Welding System) mode
- Multi-criteria welding phase
- Adjustment of the dynamic amplitude
- Measurement of the power with an accuracy of $\pm 1\%$ of the rated power of the generator
- Monitoring electrical signals from the generator for analysis of the system and therefore identification of limit charge states of the generator and the converter
- Wide protection of the generator
- Shuts off in case of error or limits are reached
- Progressive start and progressive stopping time can be adjusted to protect the acoustic module
- Transmission of data by optional RS422/485 fieldbuses.
- Parameter programming by integrated touch screen.

Pulse[®]
TOUCH
30|10

