

HARMS & WENDE WELDING INVERTER

Filius



PERFORMANCE

The Filius control is the perfect solution for your future resistance welding machine projects for producing spot, projection and seam welded connections. The ability to control, regulate and monitor both medium frequency and mains frequency power components opens up a wide range of possible solutions. Logging the welding results in the device provides you with proof of process quality. The self-explanatory menu navigation as well as the convenient backup of the most important program data via USB stick ensure quick commissioning.

EIGENSCHAFTEN

- Range of functions: Classic, Multi, Mono, Analog
- Unified menu navigation and operation for 10kHz, 1kHz and 50/60Hz devices
- MF power units between 400A and 3500A available
- AC power levels from 45A to 2950A available
- High frequency devices available upon request.
- Controls for 3 phase DC applications available upon request
- Program sequencing control
- Networking of up to 8 controllers in conjunction with the Filius RC possible as a mini chain
- Firmware download via USB stick
- Menu navigation available in several national languages using loadable language files
- Constant current control force program
- Electrode management/stepper function
- Distance measurement
- Proportional valve control
- ... and much more

APPLICATION

- Spot welding
- Projection welding
- Cross wire welding
- Seam welding
- Gap welding
- Compacting
- Hot staking
- Resistance soldering
- Heating

BENEFITS

- Direct parameterization of the control via integrated front panel
- By configuring the functions, incorrect entries can be avoided
- Best welding quality
- Customized solutions for resistance welding at manual workstations, partially automated or automated welding systems
- Separate assembly of control and power section
- Networking of up to 8 controllers as a mini chain
- Internal and external program selection
- Distance-dependent program control
- Setpoint change during the process through analog value specifications
- Pressure and force program by switching on a solenoid valve and/or changing the proportional valve
- Automatic sequence of programs

TECHNICAL DATA

Features	Mono	Multi	Classic		
Features	AC	AC	MF	AC	MF
Time entry	Per/HW /ms	Per/HW /ms	lms	Per/HW /ms	lms
Starting inputs	1	2	2	1	1
Pre-stroke valve			1		
Solenoid valves	1	2			
Proportional valves	0	2	2	1	1
Mains voltage compensation	Yes	Yes	No	Yes	No
Analogue setpoint input	No		Yes		
Current regulation	Nein	Yes			
Force calibration in kN	No	Yes			
Signal exchange 24-V I/Os			Yes		
Parameter backup via USB			Yes		
USB in the front			Yes		
programs	8	2*16		128	
Program inputs	3	4	7		
Internal program selection			Yes		
External program selection			Yes		
Status display			Yes		
Scoreboard menu			Yes		
Process and editing menu			Yes		
Configuration menu			Yes		
Limit-value monitoring/ current	No	Yes			
Distance monitoring	No	Yes			
Remote control with FiliusRC	No	Yes			
Stepper function			No	Yes	
Pressure, force program			No	Yes	
Program sequence			No	Yes	