Viewer and recorder device for welding parameters

ENERMIX.NET

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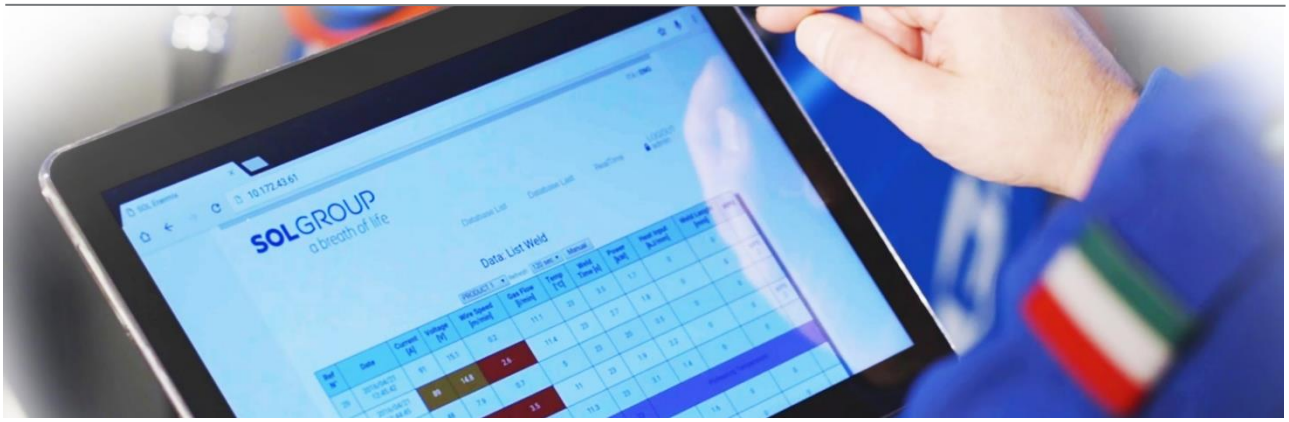

In the field of Metal Fabrication, issues related to the welding process acquires a strong significance when the need is to guarantee and certify the quality.
The welding process, in fact, is considered a special process that requires careful planning and specific controls. It is therefore increasingly important to use tools able to monitor and record the main process parameters.

The enermix.net device allows to supervise manual, partially mechanized, fully mechanized and automatic welding processes, for process analysis and optimization, and through the definition of parameters for the evaluation of quality in the welding. SOL enermix.net is characterized by high versatility, ease of installation and high level of integration.
A real time processing of data provides quick feedback about the quality of the weld.
COMPONENTS:
The device consists of:
- Control unit, touch-screen;
- Acquisition module which receives, manages, and coordinates the signals;
- Connected sensors (current, voltage, wire speed, gas flow, temperature).

ENERMIX.NET can be connected to any type of GMAW, GTAW (also with HF and AC/DC), SMAW and SAW welding machine providing a uniform reference to the welding coordinator. The device is periodically calibrated (according to ISO 17662 and IEC 60974-14) and is a benchmark for measuring devices on the welding machines.
ADVANTAGES:
The ENERMIX.NET device is a simple and effective way to monitor the welding process.
This allows you to:
- Monitor the production process continuously and store the data collected
- Analyze any process problems through the study and the comparison of the acquired signals
- Optimize the technological solutions used to reduce waste related to the welding process, with the provision of customized solutions.

MAIN FEATURES

1. On-line monitoring of the welding process;
2. Recording and production statistics;
3. Management of the traceability of supplies and materials;
4. Real-time Identification of work performance;
5. Generation of detailed reports and welding procedures;
6. Support for compliance with ISO standards;
7. Built in web server for easy access via internet.

TECHNICAL FEATURES

Rated power supply Voltage / Frequency	VAC/Hz	230 (+/-15 %) / 50-60
N° of electrical phases	-	2 ~ + (L + N + PE)
Protection fuse	A	2AT
Maximum absorbed power rating	W	25
Maximum measurable current (ED 60 % at 40°C)	A	500
Maximum measurable voltage	VDC	113
Maximum measurable wire speed	m/min	25
Maximum measurable gas flow	l/min	50
Maximum measurable temperature	°C	600
Class of protection	IP	21
Weight	Kg	7,5
Dimensions (Width x Height x Length)	mm	380x310x250

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SYSTEM COMPOSITION

Ref.	Description:	Code:
1	Enermix.net device	EM16900
2	Power supply cable 230Vac	EM203CA
3	KIT wire speed sensor 8mt cable	A160SEKIT
4	Cable 5mt 2,5mmq for voltage (+) reading	EM342CR
	2mt 70mmq cable enermix.net	EM230CA
5	Temperature probe with button 5mt cable	EM231SO/1
6	4mt (5x11) gas tube	F059T

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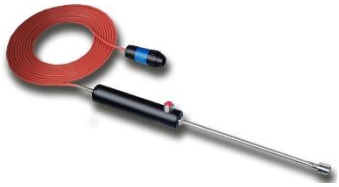

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OPTIONAL ACCESSORIES

Ref.	Description:	Code:
7	BOX V-I (for welding processes TIG DC - TIG AC/DC with HF)	EM1690A
8	KIT Hall Sensor 2000A for SUBMERGED ARC WELDING (SAW)	EM1690B
9	KIT wire speed sensor, cable 8mt for SUBMERGED ARC WELDING (SAW)	A161SEKIT
10	KIT wire speed sensor, cable 8mt with EURO CONNECTORS	A162SEKIT
11	Barcode scanner wireless	EM553PW
12	Access point repeater 300 MBP with plug	EM188RU

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di direzione e coordinamento
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