



OMISA SPG 2.0

OMISA's welding data logger SPG 2.0 is made for easy and safe welding process control and report generation pursuant to the ISO 12176 standard.

The report generation system is specifically matched to **OMISA** butt-welding machines of the Manual Hydraulic series, but can of course be used with other systems effortlessly. The SPG 2.0 control software ships ex works with configurations for many third-party systems already installed. Therefore, the logger constitutes an upgrade for manually operated welding machines to achieve ISO-compliant recording, error handling, and welding process control. At every step in the welding process, the SPG 2.0 indicates the nominal and the actual values of the welding pressures and times, to walk the welder operating the hydraulic unit easily and correctly through

the process. The unit thereby achieves the optimum welding process, in line with nationally applicable standards, as affecting both heating element temperatures and welding pressures and times. As soon as the nominal temperature is not kept or the welding pressure differs from the set value, the SPG 2.0 displays it and allows immediate adjustment by the on-board temperature control or pressure control, both operated at the hydraulic unit. A unique feature of the new SPG 2.0 is its user access control. Data, e. g., the welder ID code, are no longer read from a code with a scanning pen, but fed into the system by the new, user-friendly RFID technology that enables identification by simply holding an ID card in front of the front panel.

Easy installation is a standard feature! The SPG 2.0 is simply mounted to the upper

edge of the hydraulic unit using a dedicated support. Power to it is supplied through an isolated-ground socket at the back panel of the **OMISA** hydraulics. The very short cables needed to measure the heating element temperature and the drag and welding pressures are connected to the hydraulic unit, too.

Welding data are saved to an on-board memory that can hold up to 10,000 reports, which can be downloaded as a PDF abstract or extended report to a stick or to a label tag printer. Data download in the **OMISA** Data-Work format continues to be available, too.

The data logger ships in a case that pleases the eye and also holds a number of positioners and pressure transducers.

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SMART PLASTIC WELDING

The OMISA SPG 2.0 characteristics

P/N	SPG
Automatic data logging	10,000 reports ¹⁾
Data input	Manually with a GT & cursor keypad, RFID transponder; scanner optional
Welding monitoring system	Welding pressures, welding times, ambient temperature, memory control, operating temperature, heating element temperature
Standard-compliant ISO 12176 traceability	Commission number with 32 alphanumeric characters, ISO-compliant welder ID code, OMISA welder ID code 1 st additional (user-defined) data with 20 alphanumeric characters 2 nd additional (user-defined) data with 15 alphanumeric characters ISO-compliant traceability: fitting code, 1 st and 2 nd pipe codes, pipe length, weather conditions, joint number, installing company, inventory number
Welding standard	DVS, WIS, SEDIGAS, UNI, and others upon request
Data output	USB A port for data transfer as short abstract or extended report in the PDF format to a USB stick or a label tag printer, incl. tag printer menu; transfer also possible in the OMISA DataWork format, now with powerful download menu with date range selection, commission number selection, and download of all reports in memory
Display screen	LED-lit screen of 4 lines 20 alphanumeric characters each, character height 5 mm, welding process diagram with control LEDs
Approvals, quality, ingress rating	CE, ISO 9001 : 2008, IP 54 (IP 64 optional), RAEE-compliant, RoHS-compliant
Languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, and others upon request
Miscellaneous	Power supply by integrated SPG 2.0 accumulator in the cooling stage (optional)
System settings	Manual welding parameter input, selectable pressure transducers 100 bar or 250 bar, selectable temperature sensors PT100 or PT1000
Technical specifications	Input voltage 100 V - 260V; Input frequency 40 Hz - 80 Hz; Weight of SPG 2.0 unit approx. 3 kg; Dimensions, W x H x D, 240 x 150 x 160 mm
Manufacturer warranty	12 months

¹⁾ Under development

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You want to learn more about us?

Feel free to ask for a meeting on our premises. Detailed information on the company and on our product range is also available on-line at www.omisa.it



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