

# ORBIMAT 180 SW

Orbitalum Tools GmbH

## ORBITAL WELDING POWER SUPPLY ORBIMAT 180 SW



ORBITAL  
CUTTING & WELDING



## Industrie 4.0 features:

- Easy to operate graphical user interface (HMI)
- Integrated Linux based PLC with LAN and USB connectivity
- MQTT protocol (LAN TCP/IP based) enables:
  - Realtime monitoring of machine parameters
  - Remote loading and adjusting weld procedures
  - Remote Start / Stop weld process
  - Display error codes externally
- Weld data logfiles (quality tracking) is stored internally, on USB or LAN server for traceability processes.

1) scambi informazioni con sistemi interni (sistema gestionale, sistemi di pianificazione, sistemi di progettazione e sviluppo del prodotto, monitoraggio e controllo, anche in remoto, delle altre macchine dello stabilimento, ecc.) e/o esterni (clienti, fornitori, partner nella progettazione e sviluppo collaborativo, altri siti di produzione, supply chain, ecc.) per mezzo di un collegamento basato su specifiche documentate, disponibili pubblicamente e internazionalmente riconosciute (esempi: TCP-IP, HTTP, MQTT, ecc.);

2) sia identificato univocamente, al fine di riconoscere l'origine delle informazioni, mediante l'utilizzo di standard di indirizzamento internazionalmente riconosciuti (indirizzo IP).»



1) exchanges information with internal systems (management system, planning systems, product design and development systems, monitoring and control, even remotely, of other plant machines, etc.) and/or external systems (customers, suppliers, partners in collaborative design and development, other production sites, supply chains, etc.) by means of a link based on documented specifications, publicly available and internationally recognized (examples: TCP-IP, HTTP, etc.);

2) to be uniquely identified in order to recognize the origin of the information, through the use of internationally recognized addressing standards (IP address).

- MQTT protocol (LAN TCP/IP based) enables:
  - Realtime monitoring of machine parameters
  - Remote loading and adjusting weld procedures
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- Weld data logfiles (quality tracking) is stored internally, on USB or LAN server for traceability processes.
- Orbimat 180SW uniquely identified by serial No. And IP / MAC address

## Requisiti obbligatori

tutti i beni devono essere dotati delle seguenti caratteristiche

- Controllo per mezzo di CNC (Computer Numerical Control) e/o PLC (Programmable Logic Controller);
- Interconnessione ai sistemi informatici di fabbrica con caricamento da remoto di istruzioni e/o part program ;
- Integrazione automatizzata con il sistema logistico della fabbrica o con la rete di fornitura e/o con altre macchine del ciclo produttivo;
- Interfaccia tra uomo e macchina semplice e intuitiva;
- Rispondenza ai più recenti parametri di sicurezza, salute e igiene del lavoro.



## Mandatory requirements

all goods must be equipped with the following characteristics

- Control by computer numerical control (CNC) and/or PLC (Programmable Logic Controller);
- 'Interconnection to factory computer systems with remote loading of instructions and/or part program;
- Automated integration with the factory's logistics system or supply network and/or other machines in the production cycle;
- "Simple and intuitive interface between man and machine;
- "Responding to the latest parameters of occupational safety, health and hygiene.

- Integrated Linux based PLC with LAN and USB connectivity
- MQTT remote operation, double click to open interface document here



- Easy to operate graphical user interface (HMI)

# ORBIMAT 180 SW – Simple and easy to use interface

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## QC WELD LOG WORKFLOW



System



1

- Welder ID
- Machine serial
- Weld head serial
- Weld date/time

2

- Select weld procedure

3

- Gas cylinder number



Weld procedure



4

- Isometric number
- Weld number
- Fitting type from
- Fitting type to
- Heat number from
- Heat number to
- WPS number

5

- Weld Process

### QC weld data | Log settings

Query options

Query interval

- REQUIRED
- NOT REQUIRED

- EACH WELD
- ONE-TIME

### QC Documentation

ON  OFF



QC data server



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## NETWORK DATA TRANSFER

