

P4

TIG - With or without Filler Wire

Portable Power Source for orbital tube welding



POLYSOUDE
THE ART OF WELDING

P4

Portable Power Source for orbital tube welding

Compatible with all Polysoude™ welding heads and welding heads using filler wire

Advantages

- ▶ Automatic welding procedure generation with an intelligent and intuitive user interface combined with the latest most reliable industrial electronics
- ▶ Real time welding data acquisition
- ▶ High precision inverter power source, compact design with integrated water cooling system
- ▶ Total weight net only 32 kg

Resulting from 50 years' experience in mastering welding technologies



General Characteristics

- Program control by time or angular degrees calibrated in mm/min or inch/min
- Comprehensive real-time welding data acquisition
- Error-diagnostic system
- Automatic welding head recognition
- Built-in printer for welding procedure archiving and documentation
- Ethernet compatible
- Closed loop regulation of torch rotation and wire speed
- Welding gas control and backing gas with safety valve
- Built-in closed loop water cooling system with safety valve for welding head and torch
- Auto-range 100 - 230 V single phase ± 10 % compatible with field power generators



Offline & online programming with standard PC as well as optional touch screen



USB memory stick for saving, loading and archiving of welding programs and monitored welding data



Compatible with standard peripheral equipment – printer, bar code reader, oxygen analyser, etc.



Full function remote control with welding program selection

Associated Welding Heads



▶ UHP + MW Series

Closed welding heads for TIG tube to tube welding without filler wire



▶ MU Series

Open welding heads for TIG tube to tube welding with filler wire



▶ TS Series

Open and closed welding heads for TIG tube to tubesheet welding with or without filler wire

Wire Feeders



▶ Polyfil-2

External wire feeder and other integrated wire feeders



Technical Specification

Welding method	TIG - DC with or without Filler Wire
Input power (Auto-range)	Single phase 100 V / 115 V / 200 V / 230 V \pm 10% - 50 / 60 Hz
Open circuit voltage	100 V
Insulation class	H
Protection class	IP 23 (touch screen closed)
Welding current standard (steps of 1 A)	Range 170 A: 3 to 170 A (200 V / 230 V)
High precision (steps of 1/10 A)	Range 50 A: 3 to 50 A (100 / 230 V)
Welding current precision	\pm 1 A when $I \leq 100$ A and \pm 1% when $I > 100$ A
Duty cycle	170 A / 25% at 230 V • 130 A / 40% at 115 V 110 A / 100% at 230 V • 100 A / 100% at 115 V
Motion controls	Torch rotation: constant or pulsed Wire feeder: constant or pulsed / automatic wire retract
Shielding gas control	Welding gas, backing gas with flow safety valve
Power source cooling	Forced ventilation
Welding torch cooling	Built-in closed loop water cooling system with flow safety valve
Display / recording (non-volatile) of real values during welding	Arc Voltage, welding current, electrode position in angular degrees, welding speed and wire speed
Welding program storage / transfer	Hard disc / USB memory stick
Dimensions L x W x H	630 x 320 x 500 mm
Weight	32 kg
Standards	EN 60974-1 / EN 60974 -10



Options and Accessories

- Large 10,4" colour touch screen with multilingual, graphically assisted welding software
- Laptop
- Full function remote control
- Wire feeder control
- Mini-printer
- Control kit for closed welding heads fitted with tachometer or welding heads other than POLYSOUDE™
- Manual tack welding kit including water-cooled TIG torch
- Extension cable (15 m) for welding heads
- Kit for backing gas
- Dual welding head switch box

POLYSOUDE: Related Services

► Guidance and technical support

A welding application specialist in your area will advise you on the welding process and appropriate equipment for your application.

► Commissioning / Training

A complete training program will enable you to start using the equipment immediately and in the best way possible.

► Maintenance / Repair

Maintenance and repair operations can be carried out at the Polysoude plant as well as on site by our service network.

► Rental service

Increase the flexibility of your production! A large range of equipment is available for rental and from our hire fleet.

Your partners worldwide

AUSTRALIA POLYSOUDE S.A.S.

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

AUSTRIA POLYSOUDE AUSTRIA GmbH

☎ +43 (0) 3613 2 00 36
austria@polysoude.at

BELGIUM POLYSOUDE BENELUX

☎ +31 (0) 653 84 23 36
k.meurs@polysoude.com

POLYSOUDE BENELUX (SERVICE)

☎ +31 (0) 653 38 85 58
h.milder@polysoude.com

BRAZIL AJADE COMÉRCIO INSTALAÇÕES E SERVIÇOS Ltda.

☎ +55 (0) 11 4524 3898
fernando@ajade.com.br

BULGARIA KARWELD EOOD

☎ +359 (0) 2973 32 15
Karweld@bg400.bg

CANADA MAG TOOL Inc.

EDMONTON - ALBERTA
☎ +1 (0) 780 4 47 19 04
ray@magtool.net

MAG TOOL Inc. CAMBRIDGE - ONTARIO

☎ +1 (0) 519 651 10 50
magtool@magtool.net

CHINA POLYSOUDE SHANGHAI CO. Ltd

☎ +86 (0) 21 64 09 78 26
j.zhang@polysoude.cn

CROATIA EUROARC D.O.O.

☎ +385 (0) 1 240 60 77
euroarc@euroarc.hr

CZECH REPUBLIC POLYSOUDE AUSTRIA GmbH

☎ +420 602 602855
m.matousek@polysoude.cz

DENMARK POLYSOUDE DENMARK

☎ +45 (0) 32 94 85 10
orbital@polysoude.dk

EGYPT POLYSOUDE UK

☎ +44 (0) 1942 820 935
info@polysoude.com

FINLAND SUOMEN TEKNOHAUS OY

☎ +358 (0) 927 47 2 10
info@teknohaus.fi

FRANCE POLYSOUDE S.A.S.

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

GERMANY POLYSOUDE DEUTSCHLAND KORNWESTHEIM

☎ +49 (0) 7154 1796 90
info@polysoude.com

POLYSOUDE DEUTSCHLAND LEVERKUSEN / OPLADEN

☎ +49 (0) 2171 58 1336
info@polysoude.com

ITALY POLYSOUDE ITALIA SRL

☎ +39 (0) 2 93 79 90 94
b.baccegga@polysoude.it

JAPAN GMT CO Ltd - KAWASAKI

☎ +81 (0) 44 222 67 51
gmt@e-gmt.co.jp

GMT CO Ltd - OSAKA

☎ +81 (0) 66 472 67 55
gmt.kansai@e-gmt.co.jp

JORDAN POLYSOUDE UK

☎ +44 (0) 1942 820 935
info@polysoude.com

NEW ZEALAND POLYSOUDE S.A.S.

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

NORWAY POLYSOUDE BENELUX

☎ +31 (0) 653 84 23 36
k.meurs@polysoude.com

PAKISTAN POLYSOUDE S.A.S.

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

PHILIPPINES POLYSOUDE ASIA

☎ +86 (0) 65 862 60 08
Jmpan@singnet.com.sg

SINGAPORE POLYSOUDE ASIA

☎ +86 (0) 65 862 60 08
Jmpan@singnet.com.sg

SIN SOON HUAT WELDING PRODUCTS PTE. Ltd

☎ +65 (0) 62 65 60 88
wchng@sshcorp.com

SLOVAKIA POLYSOUDE AUSTRIA GmbH

☎ +43 (0) 3613 2 00 36
austria@polysoude.at

SOUTH AFRICA POLYSOUDE ASIA

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

SPAIN PRAXAIR SOLDADURA S.L.

☎ +34 (0) 91 78 55 77 09
Luis_Alfredo_de_Andres@praxair.com

SWEDEN POLYSOUDE BENELUX

☎ +31 (0) 653 84 23 36
k.meurs@polysoude.com

SWITZERLAND POLYSOUDE (SWITZERLAND) Inc.

☎ +41 (0) 43 243 50 80
contact@polysoude.ch

TAIWAN R.O.C. FIRST ELITE ENT. CO. Ltd

☎ +886 (0) 287 97 88 99
auto.pipe@msa.hinet.net

THAILAND POLYSOUDE ASIA

☎ +86 (0) 65 862 60 08
Jmpan@singnet.com.sg

TURKEY TIM KAYNAK VE ELEKTRONİK SİSTEMLER SAN VE TİC Ltd

☎ +90 (0) 212 2 30 87 77
timint@superonline.com

UNITED ARAB EMIRATES GERMAN GULF ENTERPRISES Ltd

☎ +971 (0) 65 31 61 71
info@polysoude.com

UKRAINE POLYSOUDE RUSSIA

☎ +7 (0) 495 564 86 81
polysoude@co.ru

UNITED STATES ASTRO ARC POLYSOUDE Inc.

☎ +1 (0) 661 702 0141
sales@astroarc.com

VENEZUELA ENRIVA C.A.

☎ +58 (0) 243 242 4541
enriva@cantv.net
cantv.net



GREAT BRITAIN POLYSOUDE UK

☎ +44 (0) 1942 820 935
info@polysoude.com

GREECE POLYSOUDE S.A.S.

☎ +33 (0) 2 40 68 11 00
info@polysoude.com

HUNGARY POLYWELD GmbH

☎ +36 (0) 28 42 22 36
polyweld@polyweld.hu

INDIA POLYSOUDE INDIA

☎ +91 (0) 20 40 03 59 31
ab.kulkarni@polysoude.in

INDONESIA P.T. TIRA AUSTENITE

☎ +62 (0) 21 460 25 94
www.tiraustenite.com

ISRAEL ADLER & STERN Ltd

☎ +972 (0) 4841 38 59
info@polysoude.com

SOUTH KOREA CHEMIKO CO Ltd

☎ +82 (0) 2 567 5336
chemiko@chol.com

MALAYSIA POLYSOUDE ASIA

☎ +86 (0) 65 862 60 08
Jmpan@singnet.com.sg

MEXICO ASTRO ARC POLYSOUDE Inc.

☎ +1 (0) 661 702 0141
sales@astroarc.com

NETHERLANDS POLYSOUDE BENELUX

☎ +31 (0) 653 84 23 36
k.meurs@polysoude.com

POLYSOUDE BENELUX (SERVICE)

☎ +31 (0) 653 38 85 58
h.milder@polysoude.com

POLAND ZALCO Sp. z o.o. - WARSZAWA

☎ +48 (0) 22 894 55 00
zalco@zalco.lan.pl

UNIDAWELD - BEDZIN

☎ +48 (0) 32 225 50 60
dszota@poczta.onet.pl

PORTUGAL PRAXAIR SOLDADURA S.L.

☎ +34 (0) 91 453 30 00
Luis_Alfredo_de_Andres@praxair.com

ROMANIA DEBISUD S.R.L.

☎ +40 (0) 255 21 57 85
debisud@rdslink.ro

RUSSIA + C.I.S. POLYSOUDE RUSSIA

☎ +7 (0) 495 564 86 81
polysoude@co.ru

SAUDI ARABIA ALRUQUEE MACHINE TOOLS

☎ +966 (0) 385 7 63 87
2HCoordinator1.Peiris@alruqee.com