

PS 164-2

TIG - With or without Filler Wire

Portable Power Source for orbital tube welding



POLYSOUDE
THE ART OF WELDING

PS 164-2

Portable Power Source for orbital tube welding

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



Advantages

- ▶ The most simple to use and reliable system available
- ▶ Graphical interface, independant from user language
- ▶ Full function power source with useful welding features and convenient data acquisition for quality assurance
- ▶ High precision inverter power source steps for perfectly controlled heat input and welding penetration
- ▶ Total weight net only 27 kg

Resulting from 50 years' experience in mastering welding technologies

General Characteristics

- Guided programming
- Error-diagnostic system
- Integrated flow safety valve for torch gas control
- Closed loop regulation of rotation and wire speed
- Built-in printer for welding procedure archiving and documentation
- Built-in closed loop water cooling system with flow safety valve for welding head and torch
- Ideal for use on site or in workshop



Chip card manager for welding procedure storage and transfer



Integrated printer perfect for storage and traceability



Error-diagnostic system



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-3

External wire feeder and other integrated wire feeders

Graphical User Interface (HMI)

Multilingual, intuitive user interface

No language skills are required

Real time data acquisition and print out via integrated printer

Programming by time or angular degrees, in RPM or 1‰ of max. speed

Closed loop regulation of rotation and wire speed

Paperless transfer and storage of welding procedures via built-in chip card manager



Welding current:
Standard range
4 – 160 A (steps of 1 A)

High precision range
4 – 50 A (steps of 1/10 A)

Key protected user interface

Non-volatile welding procedure library for all types of welding joints



Technical Specification

Welding method	TIG - DC with or without Filler Wire
Input power	Single phase 220 V / 230 V \pm 10 % - 50 / 60 Hz
Open circuit voltage	60 V
Insulation class	F
Protection class	IP 23
Welding current standard (steps of 1 A)	Range 160 A: 4 to 160 A
High precision (steps of 1/10 A)	Range 50 A: 4 to 50 A
Welding current precision	\pm 1% when I > 100 A und \pm 1 A when I \leq 100 A
Duty cycle	160 A / 40 % to 230 V 100 A / 100 % to 230 V
Motion controls	Torch rotation: constant or pulsed Wire feeding: constant or pulsed / automatic wire retract
Shielding gas control	Torch gas control with security 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, rotation and wire speed
Temporary «user» memory	16 programs
Welding procedure library (non-volatile)	60 programs
Welding program storage / transfer	Memo chip card
Dimensions L x W x H	660 x 320 x 465 mm
Net weight	27 kg (without cooling water)
Standards	EN 60974-1 / EN 60974-10



Options and Accessories

- Manual tack welding kit including water-cooled TIG torch
- Extension cable (15 m) for welding heads
- Interface box for 2nd welding head

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 from our hire fleet.

Your partners worldwide

ARGENTINA

STMAC SRL
☎ +54 (0) 11 4247 2184
stmac@telecentro.com.ar

AUSTRALIA

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

AUSTRIA

POLYSOUDE AUSTRIA GmbH
☎ +43 (0) 3613 200 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 45 24 38 98
fernando@ajade.com.br

BULGARIA

KARWELD EOOD
☎ +359 (0) 29 73 32 15
Karweld@bg400.bg

CANADA

MAG TOOL Inc.
EDMONTON - ALBERTA
☎ 800 661 9983
magtool@magtool.com

MAG TOOL Inc.

CAMBRIDGE - ONTARIO
☎ +1 519 651 10 50
michael@magtool.com

CHINA

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

CROATIA

EUROARC D.O.O.
☎ +385 (0) 1 2 40 60 77
euroarc@euroarc.hr

CZECH REPUBLIC

POLYSOUDE CZ
☎ +420 602 60 28 55
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

ESTONIA

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
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) 7154 1796 90
info@polysoude.com

ITALY

POLYSOUDE ITALIA SRL
☎ +39 02 93 79 90 94
info@polysoude.it

JAPAN

GMT CO Ltd - KAWASAKI
☎ +81 (0) 44 222 6751
gmt@e-gmt.co.jp

GMT CO Ltd - OSAKA

☎ +81 (0) 789 35 6751
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

TEMA NORGE AS
☎ +47 (0) 51 69 25 00
tor.inge.tjensvoll@tema-norge.no

PAKISTAN

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

PHILIPPINES

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

SAUDI ARABIA

ALRUQUEE INDUSTRIAL MARKETING COMPANY
☎ +966 (0) 385 7 63 87
ITManager.Khaldoun@alruqee.com

SINGAPORE

POLYSOUDE ASIA
☎ +65 (0) 65 68 62 60 08
Jmpan@singnet.com.sg

SIN SOON HUAT WELDING PRODUCTS PTE. Ltd

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

SLOVAKIA

POLYSOUDE CZ
☎ +420 602 60 28 55
m.matousek@polysoude.cz

SOUTH AFRICA

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

SOUTH KOREA

CHEMIKO CO Ltd
☎ +82 (0) 2 567 5336
chemiko@chol.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 S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.com

TURKEY

POLYSOUDE S.A.S.
☎ +33 (0) 2 40 68 11 00
info@polysoude.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.
☎ +1 661 702 01 41
sales@astroarc.com

VENEZUELA

ENRIVA C.A.
☎ +58 (0) 243 242 45 41
enriva@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 Kft.
☎ +36 (0) 20 29 88 708
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
yusuf@tiraustenite.com

ISRAEL

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

LATVIA

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

LITHUANIA

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

MALAYSIA

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

MEXICO

ASTRO ARC POLYSOUDE Inc.
☎ +1 661 702 01 41
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

TEFROMES Sp. z o.o. - IMIELIN
☎ +48 (0) 32 225 62 77
biuro@tefromes.com.pl

UNIDAWELD - BEDZIN

☎ +48 (0) 32 267 05 54
dariusz.szota@unidaweld.pl

ZALCO Sp. z o.o. - WARSZAWA

☎ +48 (0) 22 894 55 30
mbergman@zalco.pl

PORTUGAL

PRAXAIR PORTUGAL GASES, S.A.
☎ +351 (0) 229 438 320
pbarbosa@praxair.com

ROMANIA

DEBISUD S.R.L.
☎ +40 (0) 255 21 57 85
debisud@rdslink.ro

RUSSIA + C.I.S.

POLYSOUDE RUSSIA
☎ +7 495 564 86 81
polysoude@co.ru