

# **A2 Welding Controller PEI**

- User-friendly
- SAW and MIG/MAG process
- Scratch and direct start methods
- Adjustable burn-back time
- Metric and Inch

A2 welding controller (PEI) is the control system for ESAB A2 tractors and A2 welding heads. The controller is connected to the power source by a control cable and can be connected to ESAB LAF 631 and LAF 1251.

The supply to the control system is 42 Volt and is obtained through the control cable from the power source. When the feed voltage to the power source is switched on, the system is ready to use.

A2 welding controller can be used with all ESAB's A2 Automats and A2 motors.

One of the most important advantages with the A2 welding controller is that it is suitable for both Submerged-Arc Welding and Gas Metal Arc Welding. The control system is very easy to use with a minimum of training.

The user set the travel speed, voltage and wire speed by the three turning knobs. The user can then during welding read the actual weld speed, voltage and current on the digital displays. The travel speed and wire speed can be pre-set.



Welding direction is easy to change with a switch on the front panel. Manual moving of the wire up and down and the travel back and forward is also easily operated from the front of the controller.

The type of weld start is easily changed between scratch start and direct start. When choosing scratch start the wire feeder and the travel start at the same time. With direct start the travel starts when the arc is stroked.

To get good weld stops with different types of wire, diameter and material, the burn-back time can easily be adjusted.

## **Technical data**

Supply voltage from the power source Power consumption Motor connection adjusted for ESAB's A2 motors

Speed control Welding speed

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Max travel speed Wire feed speed, consumable wire

Burn-back time Pre-gas flow time Post-gas flow time Connection to power source Control cable 42V AC 50/60 Hz max 700 VA

42V DC, 3.5 A P100% 4.5 A P60% Internal EMF-adjustment 0.1-2.0 m/min, 4-80 IPM (depending on travel carriage) 2 m/min, 80 IPM 0.5-16.2 m/min, 20-640 IPM (depending on wire feed unit) 0-2.0 s 0.5 s 1.0 s Burndy contact 23-poles max 100 m Welding voltage control Gas valve/Auxiliary Flow guard Limit switches External current shunt

Operating temperature Weight Dimensions

Norms

#### 0-10 V DC 1A 42V AC NO Contact / PNP OC NO Contact / PNP OC 1000A / 60 mV 1500A / 60 mV 600A / 100 mV 750A / 100 mV -10°C - +40°C 6.2 kg 197 x 227 x 220 mm Enclosure class IP 23 EN 50199, EN 60974-1

## **Ordering information**

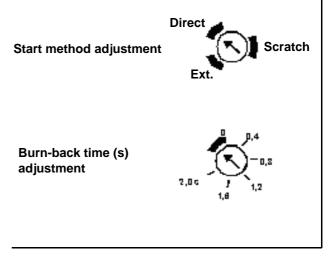
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Wite speed	A B	Contro Contro Contro Contro Contro Contro
	0	Contro
	C C	
Travel speed		
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A2 Welding Controller	0449 330 880
Control cable, L = 15 m Control cable, L = 25 m Control cable, L = 35 m Control cable, L = 50 m Control cable, L = 75 m Control cable, L = 100 m	0449 500 880 0449 500 881 0449 500 882 0449 500 883 0449 500 884 0449 500 885

Mark	Function	Ref
I	Welding on	А
0	Welding off Travel off	В
$\leftrightarrow$	Travel on	С
	Emergency stop	D
ф	Inching	E
	Travel direction	F
Voltage	Voltage adjustment	G
Wire speed	Wire speed adjustment	н
Travel speed	Travel speed adjustment	T

A2 WELDING CONTROLLER

## **REAR PANEL**





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