A2-A6 Process Controller PEK

- **Clear text menus for user friendliness**
- **CAN Bus controlled**
- **Selectable welding process**
- **Pre-setting of all welding parameters**
- **Memory for 255 parameter sets**
- **Constant current (CA) or constant wire speed (CW)**
- **Heat input visible on display**
- **Encoder controlled motors for top performance motion control**
- **USB slot for data backup and transfer**
- **Used welding parameters can be stored directly on a USB memory stick**

A2-A6 Process Controller PEK is a system adapted for use with ESAB's automatic power sources LAF 631/1001/1251/1601, TAF 801/1251 and Aristo® 1000 AC/DC. The control system is connected to the power source via a control cable and incorporates a CAN bus system for data transfer.

A2-A6 Process Controllers can be used with CAN controlled ESAB's power sources and motors. It is prepared for Submerged Arc Welding, Gas Metal Arc Welding and Arc gouging.

The control system is easy to use thanks to its clear text menu. The user can choose between a large number of different languages. The large display keeps the user informed about the main parameters as current, voltage and travel speed. Parameter sets can be given names and thus become more easy to assign. Five Soft keys can be configured according to individual preferences. PEK supports your system's maintenance and keeps track of its use.

Appropriate motors and travel axis can be selected from a list and external axis are set individually.

The PEK Man-Machine-Interface offers proven functionality and versatility.

Pre-settings
A2-A6 Process Controller can easily be pre-set by the user whereof the most will be able to use their native language. Manual control keys for wire feed and travel direction allow fast access to often used settings. Turn knobs allow easy adjustment of wire feed speed, voltage and travel speed during the process.

Main menu
The welder can pre-set the welding parameters by selecting them and turn the setting knob. 255 different parameter sets including secondary conditions can be stored and used during the welding process.

Welding parameter limits
Mechanized welding is often connected to high quality. PEK allows to define limits for both the settings as well as for the measured parameters.
The welder will be alerted if the weld parameters are outside the allowed limits.

Makes welding safer and easier
A USB slot enables to file all settings and configurations. Restore your valuable production data within minutes. Security is provided by three-level user accounts.

Technical data

Connection voltage from the power source	42V AC 50/60 Hz
Connection power	max 900 VA
Motor connection adjusted for ESAB's A2 and A6 motors	connection of 2 motors, motor current 6A cont., max 10A
Speed control	feedback from pulse encoder
Welding speed	0.1-2 m/min (depending on travel carriage)
Max man. travel speed	2 m/min
Consumable wire, feeding speed	0.3-25 m/min (depending on wire feed unit)
Valve output	1 pc, 42V AC, 0.5A
Inputs	for connection of sensors or limit switches
Connection to power source	Burndy contact 12-poles
Max ambient temperature	45°C
Min ambient temperature	-15°C
Relative humidity of air	98%
Dimensions lxwxh	246 x 235 x 273 mm
Weight	6.6 kg
Enclosure class	IP23
Standards	EN-60974-1, EN-60974-10

Control panel

1. Menu
2. Knob for moving cursor (positioning knob)
3. ENTER
4. Green indicating lamp, illuminates when the function is active
5. Welding start
6. Welding stop
7. Knob for setting the travel speed in the measurements menu, in other menus to increase or decrease the set values (settings knob)
8. Manual travel motion
9. Manual wire feed downwards
10. Knob for setting the arc voltage in the measurements menu, in other menus to increase or decrease the set values (settings knob)
11. Fast motion
12. Manual travel motion
13. Knob for setting the welding current / wire feed speed in the measurements menu, in other menus to increase or decrease the set values (settings knob)
14. Emergency stop
15. Manual wire feed upwards
16. Soft keys
17. Display
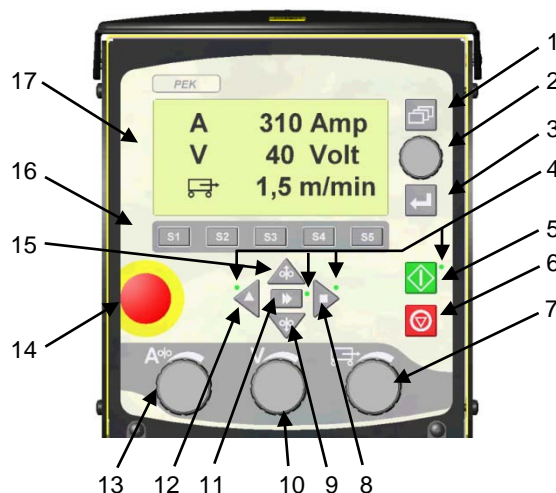
Adjustable sun shield for better visibility for outdoor use

Ordering information

A2-A6 Process Controller	0460 504 880

Options

I/O-Module	0462 080 001
Set of connectors for I/O module	0462 119 880
Cable restraining bracket	0460 861 880

Cable restraining bracket

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ESAB ®

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =