



E°EXC882 E°CUT ECO – Embedded Cutting Controller



Special functions and features

Embedded controller for cutting solutions
with integrated IOs and analog axis interface

Technology packages for

- Plasma
- Oxyfuel
- Laser

Head configurations

- 1 - 2 Plasma heads with distance control (int. or ext.)
- 1 - 4 Oxyfuel heads with proportional valves
- 1 Laser head with analog and pwm power control
- Twin technology configuration: 1 Plasma and 1-3 Oxyfuel

Distance control

- Internal high-quality E°IHC distance control
- Support of external distance control systems with digital IO-interface (IHT, Kjellberg KHC)

Software

- Cutting HMI
- CAD/CAM post processor

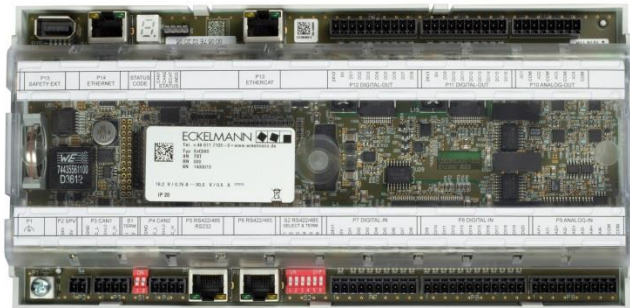
Serial interface support for

- Plasma power sources (Kjellberg, Hypertherm, Victor,...)
- External distance control systems (IHT, Kjellberg KHC)

Drive control

- 4 Axes (1 Gantry axis)
- Analog axis interface for 4 axes
- Optional CANopen®

Connections for E°EXC882 E°CUT ECO



- Optional 2 x CAN-Interface
- 3 serial interfaces
- Programming interface Ethernet, RS232
- Digital In-/Outputs
- Analog In-/ Outputs
- Analog axis interface for 4 axes
- PWM interface for laser control

Specifications

Electrical connection

- Supply Voltage:

24 V DC nominal, 19,2V ... 30 V permitted

Interfaces

- CAN1-, CAN2-bus

Optional 2x CANopen® port
configurable as I/O- or drives bus

- Ethernet
- Serial interfaces
- Digital Inputs and Outputs

1x 100Base-TX, 100 MBit/s
1 x RS-232, 2 x RS-485 / RS-422 switchable
20 x Digital In, 24 V, LED status display, polarity reversal protection
16 x Digital Out, 24 V, 500 mA, LED status display, short circuit protected
4 x Analog In, -10V ... 10V, differential
4 x Analog Out, -10 V ... 10 V, single-ended
4 axes
1 x differential output (RS-422 signal level)

- Analog Inputs and Outputs

- Analog axis interface
- PWM interface

Data memory

Program memory

Memory extension

Programming interface

Realtime clock

Operating monitoring

256 MByte RAM, 1 MByte CMOS-Ram, battery buffered
1 GByte FLASH

Internal Slot for micro SDHC cards (up to 32 GB)

Ethernet, RS-232 interface with pilot-LED's

Battery buffered

Outputs are turned off by a watchdog in case of an error

General data

- Dimensions:
- Temperature range
- Relative humidity:
- Protection:
- Standards:

Transport/ Storage:
Operation:

W 267 mm x D 128 mm x H 42 mm

-40°C .. +70°C

+5°C .. +50°C

10% .. 95%, non-condensing

IP20

Complying with EU Directives

- 2004/108/EG (EMC-Directives)

- 2006/95/EG (Low voltage Directive)

CANopen® und CiA® are registered community trade marks of CAN in Automation e.V.

Eckelmann Group – Source of inspiration

Eckelmann Aktiengesellschaft
Berliner Straße 161 65205 Wiesbaden Germany
Telefon +49 611 7103-0 Fax +49 611 7103-133
info@eckelmann.de www.eckelmann.de

E°EXC882 E°CUT ECO EN
July 2016
Technical modifications and errors reserved