ETS Servo Overview

Encoder Test Station with Position Feedback

FEATURES

- High-precision BLDC motor
- Dynamic drive with up to 12,000 RPM
- Smooth and quiet operation
- Absolute encoder with low latency and an accuracy < 60 arcsec
- 22-bit BiSS C output for reference measurements in a daisy chain
- Differential ABZ outputs with 8192 periods per mechanical revolution
- Differential 1 Vpp sin/cos outputs with 256 cycles per mechanical revolution
- Precision XYZ manipulators for fast sensor alignment
- Mounting adapter for iC-Haus sensor boards
- Shaft adapters to mount measuring scales on the 6 mm shaft
- Compact form factor and front panel operation
- Option: Access via PC software (USB) - ETS_Servo_1SO
  - Various speed and positioning functions
  - Customizable automated test profiles
  - Remote control of the ETS Servo Drive Control Software via TCP

APPLICATIONS

- Evaluation of encoder iCs
- Encoder module validation
- Automated test equipment

DESCRIPTION AND FUNCTION

The ETS Servo is an encoder test stand for rotary encoder ICs and encoder systems. The device consists of a base housing made of anodized aluminum with drive shaft, controls and plugs.

The built-in high-precision BLDC motor and the absolute encoder ensure smooth and quiet movement of the shaft at a maximum 2,000 RPM by default or programmable up to 12,000 RPM. The integrated encoder serves two purposes: It provides internal closed-loop control of the motor. In addition, the encoder also provides reference measurement signals via multiple digital and analog interfaces with external connectors on the rear panel.

There are two control modes: Basic front panel control (run/stop, speed and direction of rotation) and advanced PC software control.

With the optional software module ETS_Servo_1SO, the ETS Servo can be controlled from a PC (USB) with user-defined motion profiles or it can be controlled remotely via TCP.

Figure 1: Front control panel

Figure 2: Rear connectors and controls

DESCRIPTION AND FUNCTION

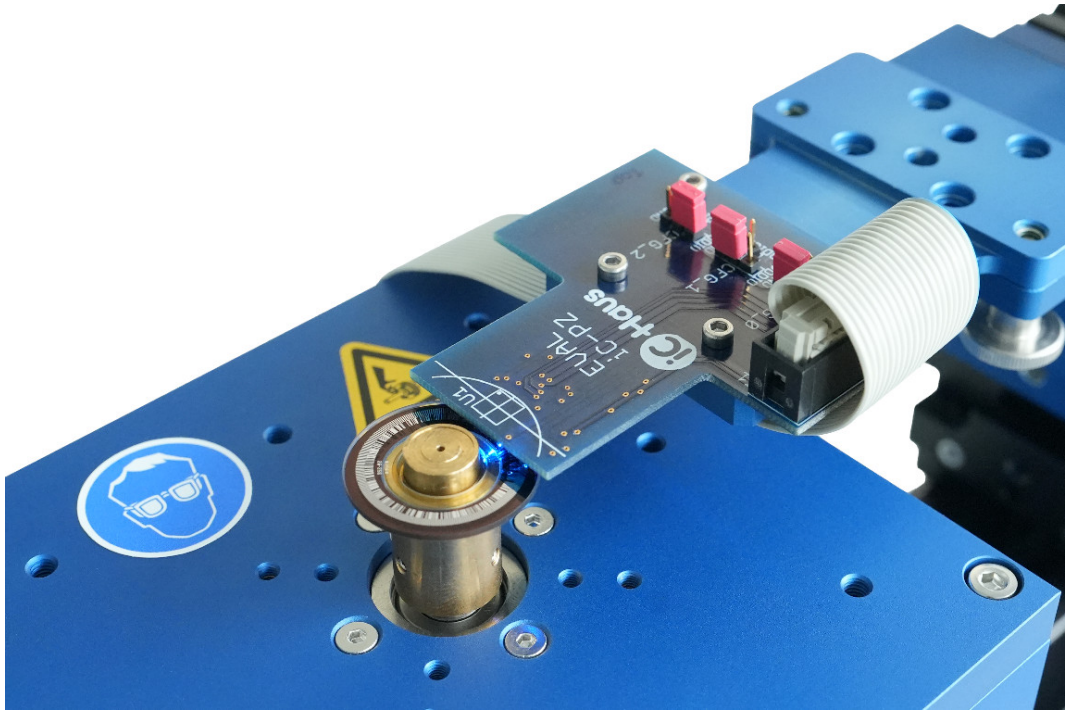

Figure 3: Example of use with iC-Haus evaluation kits (not included in the scope of delivery)

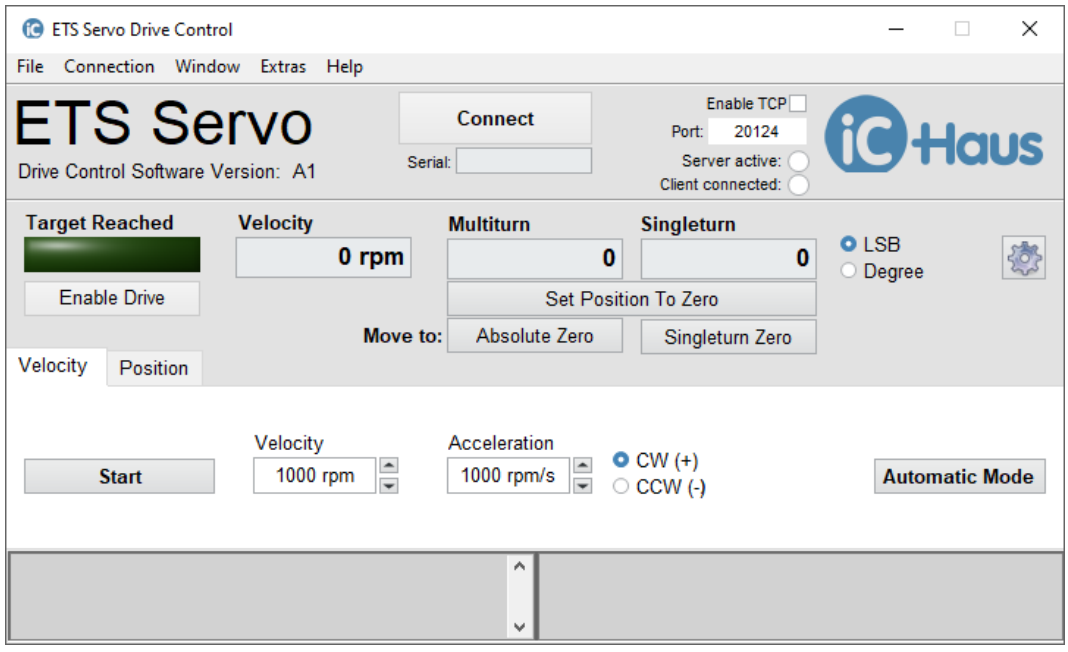

Figure 4: ETS Servo Drive Control software main window (optional, to be ordered separately)

SCOPE OF DELIVERY

The transport case comes with a hard plastic shell and foam inserts to safely store and carry all parts. It has a size and weight of approximately 594 mm x 561 mm x 161 mm (L x W x H) and 8.16 kg.

Figure 5: ETS Servo transport case with parts

ORDERING INFORMATION

Type	Options	Order Designation
ETS Servo	power cord options are xxx = **EUR** - **middle European standard** **USA** - American standard **UK** - UK standard **SUI** - Swiss standard **CN** - Chinese standard	ETS Servo Base-xxx
Module ETS Servo Software	Software runs on Windows operating systems 10 and 11 (only x64)	ETS_Servo_1SO

Please send your purchase orders to our order handling team:

Fax: +49 (0) 61 35 - 92 92 - 692
E-Mail: dispo@ichaus.com

For technical support, information about prices and terms of delivery please contact:

iC-Haus GmbH
Am Kuemmerling 18
D-55294 Bodenheim
GERMANY

Tel.: +49 (0) 61 35 - 92 92 - 0
Fax: +49 (0) 61 35 - 92 92 - 192
Web: https://www.ichaus.com
E-Mail: sales@ichaus.com

Appointed local distributors: https://www.ichaus.com/sales_partners