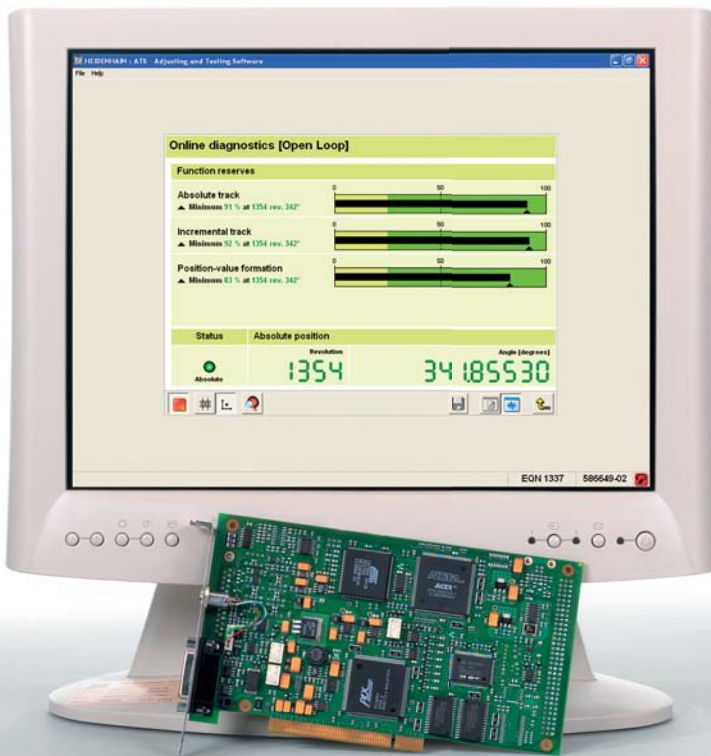




HEIDENHAIN



Product Information

IK 215 ATS Software

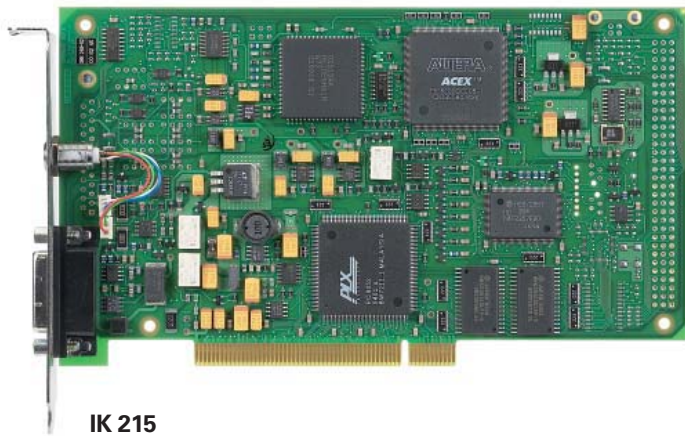
March 2008

Adjusting and Testing Package

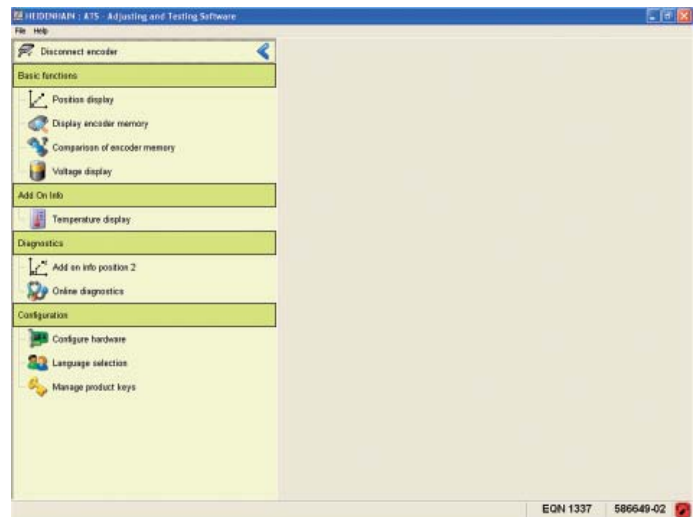
HEIDENHAIN offers an adjusting and testing package for diagnosis and adjustment of HEIDENHAIN encoders with absolute interface. It consists of the following components:

- IK 215 interface card for direct installation in a PCI expansion slot of a PC.
- **Adjusting and Testing Software (ATS)** with integrated local encoder database for automatic encoder identification.

The functions supported by the ATS software vary depending on the encoder and the encoder interface. The EnDat interface makes it possible not only to display the position value but also to read out the online diagnostics, to read or write parameters, shift datums, set write-protection and use further inspection functions, etc .



IK 215



ATS software

IK 215 Interface Card

	IK 215
Area of application	<ul style="list-style-type: none"> • Functional check of absolute HEIDENHAIN encoders • Mounting wizard for inductive encoders with EnDat interface (ECI/EQI)
Encoder input	<ul style="list-style-type: none"> • EnDat 2.1 or EnDat 2.2 (absolute value with/without incremental signals) • Fanuc Serial Interface • Mitsubishi High Speed Serial Interface • SSI
Interface	PCI bus, Rev. 2.1
System requirements	<ul style="list-style-type: none"> • IBM PC or 100% compatible PC (clock frequency > 1 GHz recommended) • PCI local bus as per Rev. 2.1 specifications
Signal subdivision	Resolution up to 65536-fold
Dimensions	100 mm x 190 mm

ATS Adjusting and Testing Software

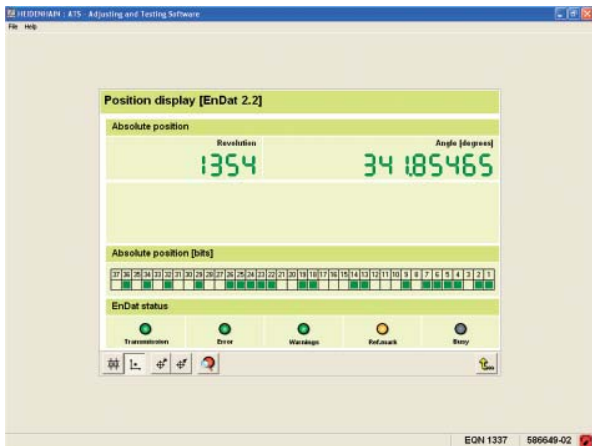
	ATS software
System requirements	<ul style="list-style-type: none"> Operating system: Windows XP/(Vista upon request) Approx. 20 MB free space on the hard disk
Product key	Management of product keys for optional functions
Languages	Choice between German or English

Available functions	EnDat	Fanuc	Mitsubishi	SSI
Position display <ul style="list-style-type: none"> Display of the absolute position Display of the incremental position (if available) Display and resetting of error messages Display and resetting of warnings Display of transmission status 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> ✓ – ✓ – ✓ 	<ul style="list-style-type: none"> ✓ – ✓ – ✓ 	<ul style="list-style-type: none"> ✓ ✓ – – (✓)
Connection dialog <ul style="list-style-type: none"> Automatic connection using ID number Connection by indicating the supply voltage and interface 	<ul style="list-style-type: none"> ✓ ✓ 	<ul style="list-style-type: none"> ✓ ✓ 	<ul style="list-style-type: none"> ✓ ✓ 	<ul style="list-style-type: none"> ✓ ✓
Diagnostics <ul style="list-style-type: none"> Display of online diagnostics (open-loop and closed-loop mode) if supported by the encoder (e.g. LC xx3) Circular diagram of incremental signals (if available) Display of supply voltage and supply current 	<ul style="list-style-type: none"> ✓ ✓ ✓ 	<ul style="list-style-type: none"> ○ – ✓ 	<ul style="list-style-type: none"> ○ (in development) – ✓ 	<ul style="list-style-type: none"> – ✓ ✓
Mounting wizard for ECI/EQI <ul style="list-style-type: none"> Wizard for mounting inductive encoders 	<ul style="list-style-type: none"> ✓ 	<ul style="list-style-type: none"> – 	<ul style="list-style-type: none"> – 	<ul style="list-style-type: none"> –
Additional functions (if supported by the encoder) <ul style="list-style-type: none"> Comparison of absolute position with incremental position Datum shift ("electrical zeroing of position") Display of additional information: Temperature Display of additional information : Position value 2 Display of additional information: Additional sensors Display of additional information: Limit position signals Display of additional information: Operating status error sources 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> – – – – – – – 	<ul style="list-style-type: none"> – – – – – – – 	<ul style="list-style-type: none"> ✓ – – – – – –
Memory contents <ul style="list-style-type: none"> Display of memory contents Modification to memory contents Saving the memory allocation Comparison of current memory contents with saved memory contents 	<ul style="list-style-type: none"> ✓ ✓ ✓ ✓ 	<ul style="list-style-type: none"> – – – – 	<ul style="list-style-type: none"> – – – – 	<ul style="list-style-type: none"> – – – –

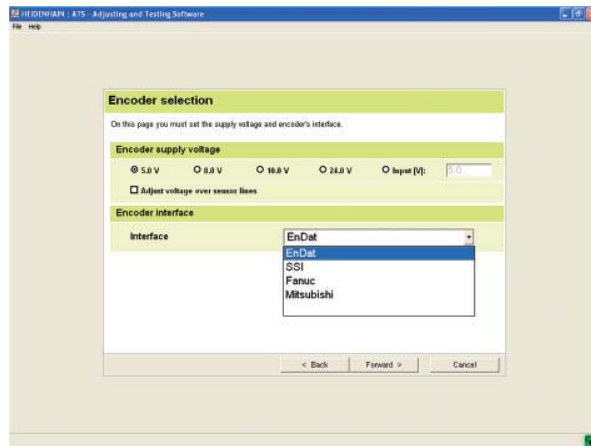
- ✓ = available
 ○ = optional
 – = not available

ATS Software

Some of the ATS Software Functions



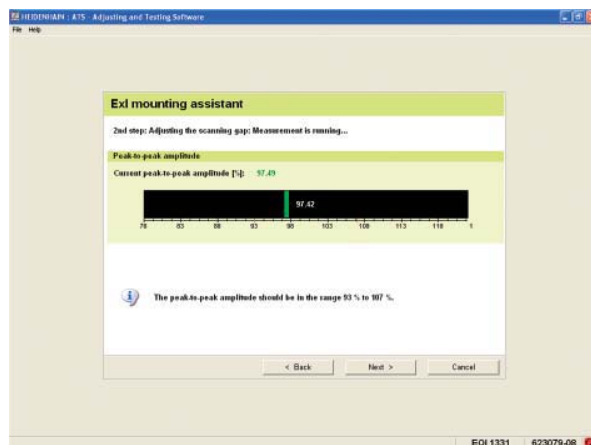
Position display



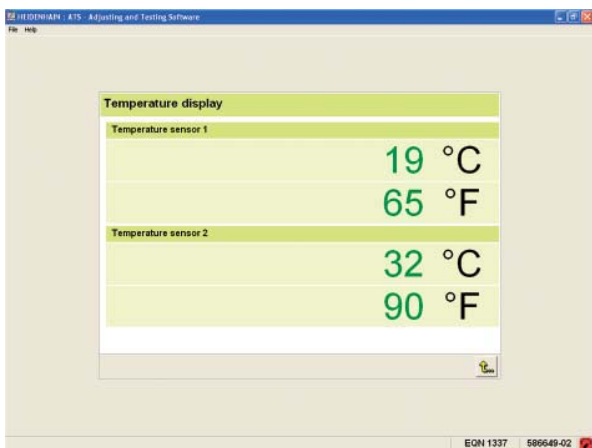
Connection dialog



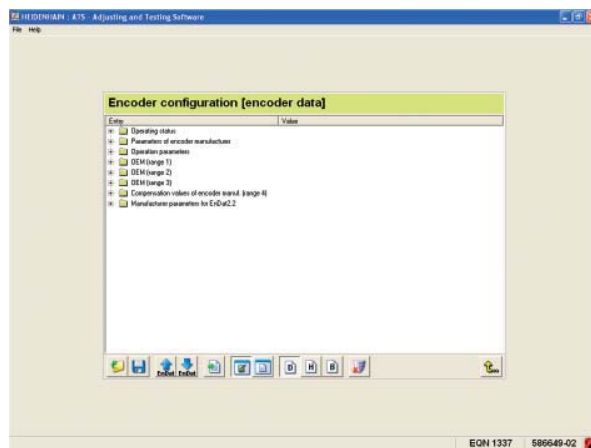
Online diagnostics



Mounting wizard



Additional function: Temperature display



Display of memory contents

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