

## Technical Data

### General

Power supply	VDC	24 ±10 %
Power consumption	W	<20
Operating temperature range	°C	5 ... 50
Storage temperature range	°C	0 ... 60
Display	LCD 1/4 VGA with lighting background	

Up- and download of setpoint records,  
external visualization via PC

Access control		by password
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### Attributes

32 different programmes selectable from PLC;  
Per program: 8 windows/16 position sets  
More than 30 window types available  
measured value storage, curve storage, statistics

### Measuring Technology

Resolution of analog inputs	bit	12
Scan rate	kHz	5
Measuring points per curve		4 000

### Y-Channel

Strain gage		
Supply	V	±1,25/2,5/5/10
	mV/V	0,25 ... 5
Accuracy	% FSO*	0,1
Active	V	±0,5 ... 10
Supply	V	24 (300 mA)**
Accuracy	% FSO*	0,1

### X-Channel

Internal via Fieldbus		EtherNet/IP-Master
Incremental (counting range)	bit	32
Supply	V	24 (300 mA)**
SSI absolute (value range)	bit	24
Supply	V	24 (300 mA)**

### Control Signals

Fieldbus		Profibus
EtherNet/IP, ProfiNet IO, DeviceNet, CANopen		optional
Parallel 1x16 I/O		on request

### Interfaces

Ethernet		Mbit/s	10/100
RS-232C	COM1, COM2	baud	9 600 ... 115 200
Keyboard			PS/2
Printer	LPT		25 pin parallel

### Housing Versions

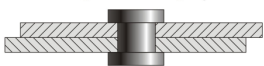
Weight panel housing IP54	kg	4
Weight desktop housing IP40	kg	3,2
Weight wall mounted housing IP53	kg	4,3
Dimensions	mm	see figure 1

\* without accuracy of the respective sensor

\*\* maximum current sum of X and Y channels

## Monitoring Processes

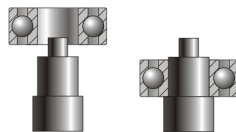
Monitoring of riveting operations



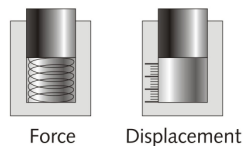
Monitoring of crimping operations



Press-fit monitoring

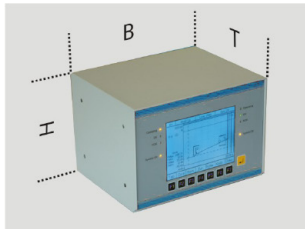


Classification of

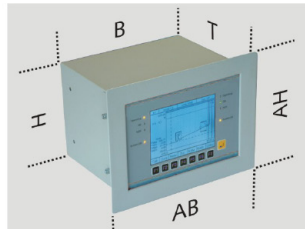


**Dimensions**

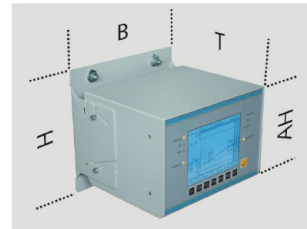
Housing version	B	H	T	AB	AH
Desktop housing	223	158	180	–	–
Panel housing	223	158	180	274	180
Wall mounted housing	228	217	180	–	158



Desktop housing



Panel housing



Wall mounted housing



Wall mounted housing with fixing hole



Wall mounted housing to the top



Wall mounted housing to the bottom

Fig. 1: Dimensions housing versions DMF-P A310 NCF Type 4740A...

**Functional Principle**

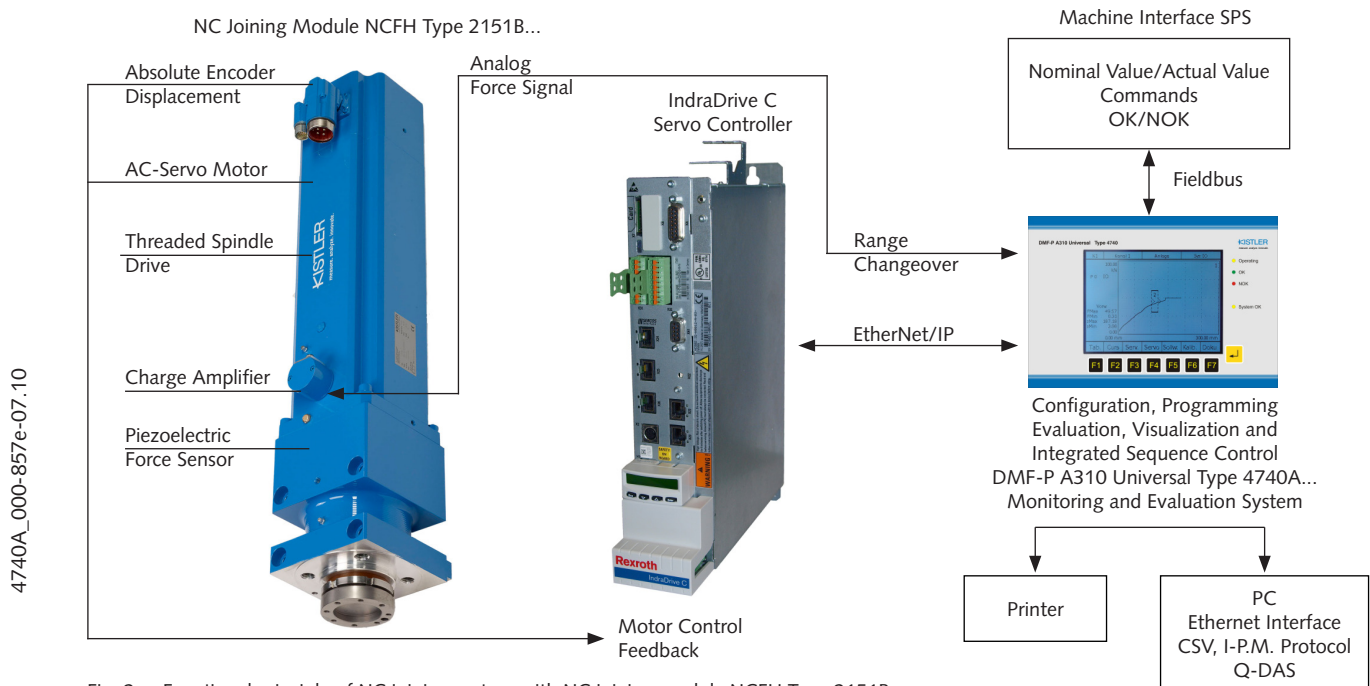


Fig. 2: Functional principle of NC joining system with NC joining module NCFH Type 2151B...

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