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KISTLER
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Operating Panel

Type 2158A

Parametrization, Visualization and Data Backup

Operating Panel Type 2158A can be used for all Kistler NC joining modules with associated servo controllers, and NC Compact Firmware Type 2159A. It is used to parameterize and display the joining process and for data backup. The Operating Panel is not required for ongoing operation.

- 5,7" TFT color display touch screen operation
- Visualization of diagram and window evaluation
- Parameterization for set-points (position, speed, window, type of shutoff)
- Calibration menu X/Y axis for strain gage and Piezo
- Documentation with OK/NOK statistics and csv files
- Data backup, securing parameter sets

Description

The operating panel supports the user during initial start up and is used to visualize the joining process. The simple menu on the touch screen makes it possible to parameterize 16 different standard joining processes with no problems. Critical segments in the assembly cycle are defined in the force/displacement characteristic using evaluation windows (2 joining windows, 1 end window). In addition, for each program there is the option of activating a fast shutdown. OK/NOK statistics provide valuable tips on production and quality assurance.
In addition csv files can be generated for documentation of target and actual values inclusive curve development.

Application

Initial start up of an assembly or joining process with the NC Compact Firmware Type 2159A can be easily and quickly carried out using the Operating Panel Type 2158A with touch screen operation. It displays force/displacement diagrams, windows, window values, parametrization and statistics, and data sets can be stored.

Technical Data

Operating Panel with TFT Display

Display diagonal	Inch	5,7
Resolution	Pixels	320x240
Max. colors		65 536
Operating temperature range	°C	0 ... 50
Ambient temperature (storing)	°C	–20 ... 60
Interfaces		
Serial 1		RS-232C
USB		2x 1.1
LAN	MBit	10/100 Ethernet
Current consumption	A	ca. 0,5
Tube lifetime	h	approx. 50 000
Degree of protection DIN EN60529	Front	IP65
Degree of protection DIN EN60529	Back	IP20

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This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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Operating Panel Parametrization, Visualization and Data Backup Type 2158A

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Functional Principle

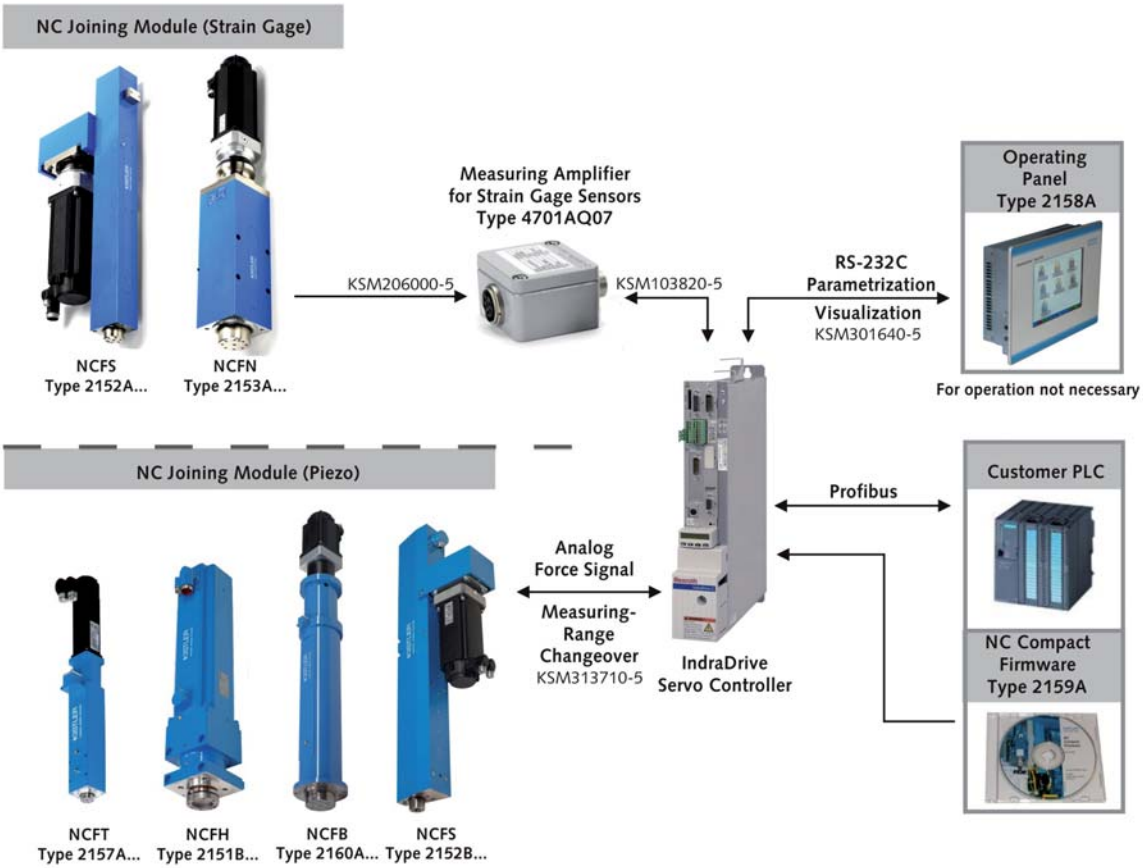

Diagram and Window Evaluation

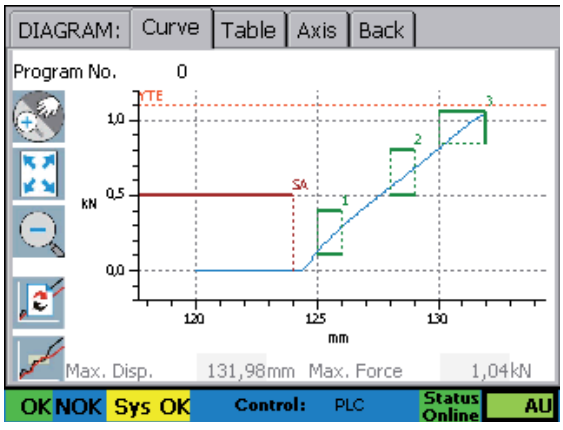

Fig. 1: Diagram menu, display curve with evaluation window

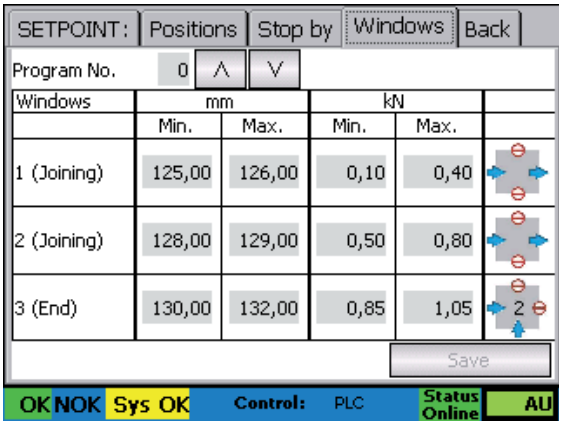

Fig. 2: Menu set-points, parameter window

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Operating Panel Type 2158 Operation and Data Backup Type 2158A
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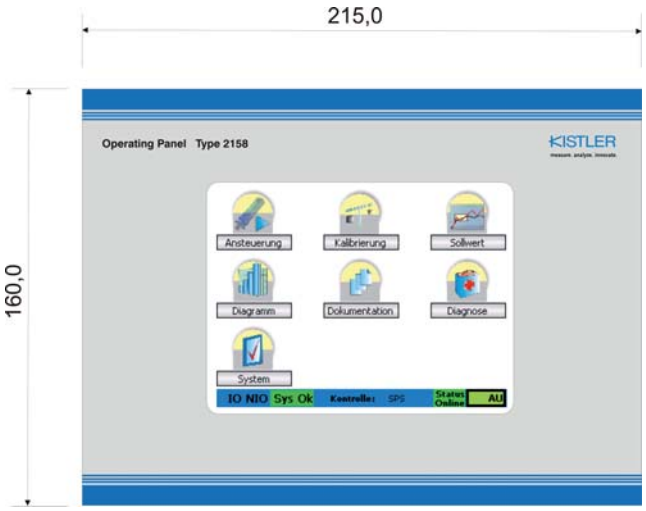
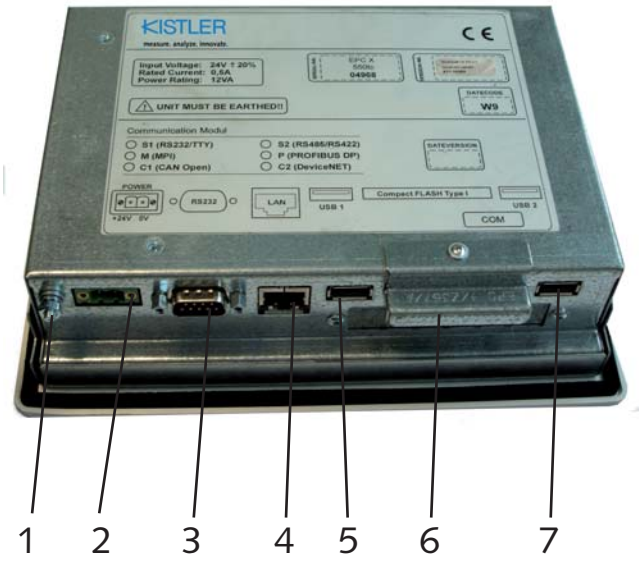
Dimensions



Interfaces



Front panel:

Outer dimensions LxWxH [mm]	215x160x53
Cutting dimensions WxH [mm]	197x143

Panel is made of aluminium

1 Ground connection
2 Power supply (24 VDC)
3 RS-232C Interface to servo controller
4 LAN (Ethernet (interface for csv files))
5 USB Interface 1.1 (1) (only storage)
6 Compact FLASH Type 1 (with sheet metal cover)
7 USB Interface 1.1 (2) (only storage)

Included Accessories

- None

Optional Accessories	Type/Art. No.
• NC Joining Module NCFB	2160A…
• NC Joining Module NCFH	2151B…
• NC Joining Module NCFS	2152…
• NC Joining Module NCFN	2153A…
• NC Joining Module NCFT	2157A…
• Measuring amplifier for strain gage sensors	4701AQ07
• NC Compact Firmware	2159A

NC joining module as well as servocontroller and associated motor and feedback cable are listed in the corresponding data sheet for the NC joining module.

Cable	Type/Art. No.
• IndraDrive data cable	KSM301640-5
• Strain gage free/KD6 Tuchel cable	KSM103820-5
• NCF force transmitter cable	KSM313710-5
• NCFN(S) strain gage force cable	KSM206000-5

Other length on request

Ordering Code

Operating Panel	**Type 2158A**

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