



CALIBRA 2020

Calibration System

alkitronic®

**The
professional
complete package**



alkitronic® calibra 2020 Calibration System



alkitronic® - calibra 2020

the comfortable calibration system designed for precise torque measurements of manual, electrical or air-driven torque tools.

Communication between the testing equipment, sensory of the shaft-transducers and a PC via the interface: **IFcalibra**.

Regulation for purposes of measurement / adjustment via the software especially designed by **alki-Technik**: Software **calibra KS**.

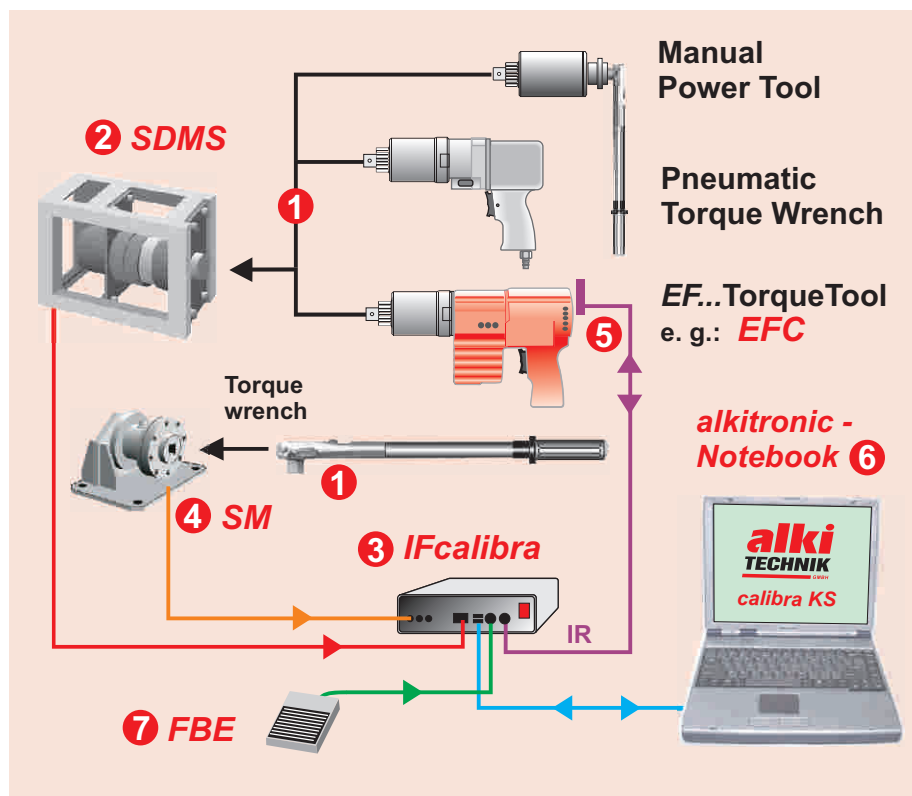
✓ Exclusively for the **alkitronic torque wrenches Series EF..**

The construction of the **alkitronic -EF..** torque tools provides additional adjustment and optimization of the torque values for your specific joints, via the integrated infrared serial interface.

Calibra 2020 example of equipment, torque measurement on an **alkitronic-EFC** torque tool

calibra 2020 Calibration System Overview measurement

Schematic set-up of measurement place



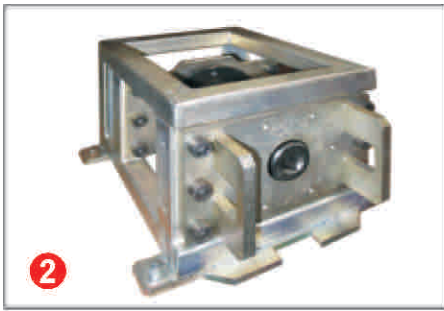
- 1 Testing equipment, e.g.: mechanical tools, electric and pneumatic driven torque wrenches
- 2 Static-dynamic measuring simulator **alkitronic-SDMS** (active transducer)
- 3 Interface **alkitronic-IFcalibra**

- 4 Static transducer **alkitronic-SM** (active or passive)
- 5 Infrared Adapter **IR** (Series **EF..** only)
- 6 **alkitronic-Notebook** or PC
- 7 **FBE** electrical foot remote control



The components

alkitronic® calibra 2020



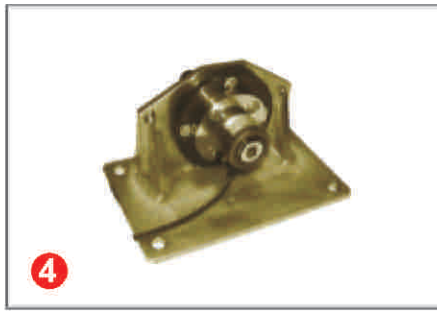
Transducer	Range (Nm)	□	Ref.-No.
SDMS 10	100 - 1.000	1"	15841
SDMS 25	250 - 2.500	1"	15842
SDMS 50	500 - 5.000	1"	15844
SDMS 100	1,000 - 10,000	1 1/2"	15848

Accuracy class: < 0,2 % of range (Transducer)
Mech. overload: approx. 110 % of range

Technical Data (active shaft-transducer):
Supply voltage: +/- 12 V DC
Output signal: +/- 5 VDC

Support devices for the different torque tools, e.g. manual, electrical or pneumatic are available.

All components are being delivered with the required measuring cables.



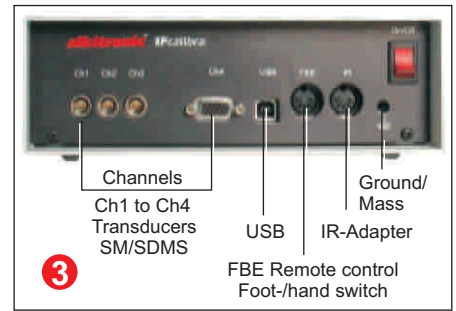
Transducer	Range (Nm)	□	Ref.-No.
SM 5	50 - 500	3/4"	15821
SM 10	100 - 1,000	1"	15822

Accuracy class: < 0,2 % of range (Transducer)
Mech. overload: approx. 110 % of range

Technical Data (active shaft-transducer):
Supply voltage: +/- 12 V DC
Output signal: +/- 5 V DC

Technical Data (passive shaft-transducer):
Supply voltage: 5 V DC
Output signal: mV/V

	Ref.-No.:
5 IR Adapter (for EF Series)	15805
7 FBE Foot switch electr.	15811



Description*:

IFcalibra with 4 transducer input channels (Channel Ch1 to Ch3 = LEMO-jack, Ch4 = SubD jack). Connection to the PC via the USB interface

The **IFcalibra** is for use with active transducers with a supply voltage of 12 Volt.

The **IFcalibra /a** is for use with passive transducers with a supply voltage of 5 V. **IFcalibra /a** features an integrated instrument amplifier.

Technical Data:

Voltage: 100 - 253 V / 45 to 66 Hz
Power consumption: 100 W upon 230V

* Detailed information upon request

IFcalibra	Ref.-No.:	15804
IFcalibra /a	Ref.-No.:	15809

alkitronic® Software calibra KS/M, KS/L, KS/EF

calibra KS/... ...perfectly suited to the requirements of torque measurement.

The standard windows user interface guarantees a steep learning curve.

General features:

e. g.:

- 10 measurements per level or torque setting, torque settings to be checked are freely selectable (KS/M);
- Creation of torque diagram;
- Basic version in german and english, further languages optionally available;
- Selection of units Nm/lb.ft, bar/psi;
- Statistics (confidence interval etc.)

calibra KS/... is available in three versions:

calibra KS /M

Measurement of manual torque tools (torque wrenches, manual power drivers, etc.), torque settings to be checked are freely selectable - inputs of up to 32 values are possible

calibra KS /L

for torque measurement of pneumatic torque tools, values selectable within steps of 0,5 bar

calibra KS /EF.

for measurement **and** adjustment of electrical torque wrenches series **alkitronic-EF.** / -EFC

Special features:

display of actual measurement values, shut-off values per stage / Mb presets are adjustable

System Requirements:
Hardware:
USB, Intel Pentium 4, 2 GHz or better, 256 MB RAM, HDD 40 GB (free memory approx. 2 GB)
Software: MS Windows XP

Notebook: MS Windows XP and **calibra KS /.** installed and ready to run

15802	
15803	alkitronic-Notebook Ref.-No.:15810



EF-SG
IP 54



EFW



EFC



CLD



CLV-R

alki
TECHNIK
GMBH

Product program:

alkitronic®

- **Continuously rotating screwing systems:**
Drive manual, electric and pneumatic
- **Gearing technic:**
Central gearing, tangential gearing, radial gearing
- **QMS:**
Quality Management for Screwed Joints

BESTMA®

- **Hydraulic screwing- and drive systems:**
Drive manual, electric and pneumatic
- **Inspection Works**

alkitronic®

torque power - worldwide



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