

- Mobile display for force transducers
- Measuring systems

- Rigid versatile handheld instrument
- Minimal- and maximal value display
- 16 programmable measurement range
- Measuring rate up to 1600 value/ s
- Multiple force transducers connected
- 0.01 % accuracy class
- USB 2.0- interface
- Sensor detection of TEDS-M



Force transducer

Connector
XKC 041.03 or
XKC 072 (TEDS-M)

AE 703

MAX

DATA UNIT

Power button

ESC

USB

Specification

Accuracy Class	%	0.01
Signal Input		For up to 2 transducers with strain gauge full bridges connected
Input signal range (+Si/-Si)	mV/V	$\pm 0.3 \dots 5$
Input impedance range of strain gauge bridge	Ω	> 150 (2 parallel strain gauge full bridges/ 350 Ω) up to 2000
Excitation voltage (+Ex/-Ex)	VDC	5.0
Error by 2mV/V		
Relative linearity error	%	0.0015
Noise (at measuring rate)	%	0.002 (6.25Hz) ... 0.04 (1600Hz)
Temperature effect on zero signal	%/10K	0.002
Display		5-digit LCD graphik display, 128x64 pixel, illuminated
Character height	mm	14
Display range		-99999 up to 99999
Display additional modes		Meas/min/max.value, overload, various units, charge of battery
Display rate		3
Scaling points for linearization		up to 4
Internal resolution at 2mV/V	pieces	22 Bit
Measuring rate (average value)	1/s	6.25 ... 1600
Measured value transmission via USB		max. 1400 values/s with software ASTAS
TEDS-M		according to IEEE 1451.4
Interface		Mixed-Mode interface, class 2
Supported templates		basic, bridge
Power Supply		
Supply voltage	VDC	3.0 ... 4.8 (3 accumulators or primary cells AA) or powering via USB-port
Operating time with batteries	h	approx. 40
Environmental Conditions		
Operating temperature range	°C	-10 ... +50
Storage temperature range	°C	-20 ... +70
Construction		
USB - interface		Mini-USB-B connector, 5 pin
Dimensions: (W x H x D)	mm	82.1 x 161.7 x 53.8
Weight without batteries	g	240
Force transducer connector		6-pin round connector
Environmental protection (EN 60529)		IP 54 - in use, force transducer connected, USB-port closed

Order Example

Type Code	Description
AE 703	Mobile display, incl. USB-cable, manual, ASTAS ® PC-software download on www.ast.de

Options

	Type Code	Description
Case	XKM 270.01	Storage case for AE 703, force transducer and accessories, incl. 3 batteries, USB-cable, screwdriver for battery compartment
Plug and cable	XKC 041.03	6 pin round connector on force transducer suitable for AE 703 (IP 67)
	XKC 072	6-pin connector (TEDS-M) mounted and adjusted (only in conjunction with Master-force sensors)
	XKC 107	Charger for 1-4 accus (without accu)
	Accu - AA	Accu AA, NiMH be ordered separately
	XKC 109	USB power supply unit
Adjustment/Scaling	XKE 703	Adjustment/ scaling (see also calibration)