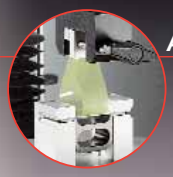
THE WORLD STANDARD FOR TEXTURE ANALYSIS

Food

Pharmaceuticals

Cosmetics

Personal Care



Adhesives

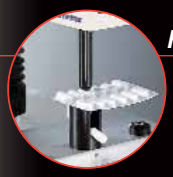
TA.HD.plus Texture Analyser

TA.XT.plus Texture Analyser

www.stablemicrosystems.com

THE WORLD STANDARD FOR TEXTURE ANALYSIS


Food


Pharmaceuticals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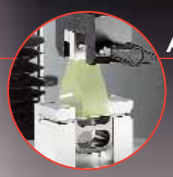
Adhesives

TA.HD.plus® Texture Analyser

TA.XT.plus Texture Analyser

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FEATURES & BENEFITS

Totally programmable multi-stage testing

Multi-stage test programming facilities so the user can define individual arm movement sequences at various speeds and distances. This unique control feature enables the most complex test protocols to be established. As a result, the Texture Analyser is no longer limited to fixed library tests.

Multichannel data acquisition

The ability to plug-in peripheral instruments has been incorporated into the design to provide multi-channel data acquisition. This allows for many other measuring devices to be used in conjunction with the Texture Analyser and their data simultaneously collected, such as temperature and humidity monitors.

Maximum and minimum speed

High speed testing up to 40mm/s can be reached by the TA.XT*plus* using 5kg and 30kg load cells. This will be of interest when matching specific operational conditions or imitating real-life situations. The high resolution functionality from the established product range has been incorporated into the model as standard, allowing for a minimum speed of 0.01mm/s.

Constant strain and strain rate

Speed can alter in proportion to the instantaneous height of the sample so that products can be tested at a constant strain rate in compression or tension.

Flash updates of firmware via the PC

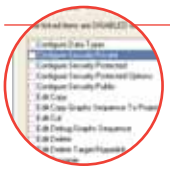
New firmware can be downloaded ('flash upgraded') by a quick and simple software interface so that new features can be added to enhance the instrument capabilities. This allows access to latest developments and improvements even after your initial instrument installation.

Calibration

All loadcells are factory calibrated and may also be calibrated with any weight up to the loadcell capacity installed in the Texture Analyser to provide optimum accuracy at the force range of specific interest to the user.

Loadcell auto detection / force filtering

Loadcell information such as capacity, calibration and serial numbers is stored within the loadcell and automatically detected upon installation. This makes loadcell changing much easier and quicker and prevents potential user errors.



Enhanced security module

Developed in accordance with the FDA CFR21 Part 11 guidelines, this includes electronic record and signature management. It facilitates the continuous monitoring and tracking of results and records and incorporates encrypted log-on passwords combined with password protection for validation. The ability to copy and print out audit trails is included, thereby enabling results and records to be traced.

TECHNICAL SPECIFICATIONS

	TA.XT*plus**	TA.HD*plus**
Force Capacity	50kg.f (500N)	750kg.f (7.5kN)
Force Resolution	0.1g	0.1g
Loadcells	1, 30, 50kg.f	5, 30, 50, 100, 250, 500, 750kg.f
Speed Range	0.01 – 40mm/s	0.01 – 20mm/s
	(20mm/s @ 30–50kg.f)	(13mm/s @ 500–750kg.f)
Speed Accuracy	Better than 0.1%	Better than 0.1%
Range Setting	0.01 - 295mm	0.01 – 524mm
Extended Range Setting	0.01 - 545mm	-
Range Resolution	0.001mm.	0.001mm
Net weight	16.2 kg	37kg
Dimensions	665x440x280mm	980x390x300mm
Width Between Columns	-	300mm
Loadcells	Directly interchangeable by the user. Loadcells store Factory calibration	
	and identification information in 'onboard' non-volatile memory	
Loadcell Accuracy	0.5% of reading down to 1% of Loadcell capacity	
Data Channels	Filtered force at 20bit	
	Distance at 24 bit	
	Unfiltered force at 16 bit	
	Two linear analogue inputs: (range +/- 4.5v @ 16 bit) or	
	PT100 temperature probe inputs (range –50°C to +250°C)	
	Bi-phase digital encoder input at 24 bit suitable for any	
	compatible linear or rotary extensometer	
Data Acquisition Rate	Up to 500 points per second (PPS) for each data channel	
Filtered Force	Oversampled at 8000 samples/sec, digitally filtered to 500pps. at 20 bit resolution	
External Instrumentation	Four channels of RS485	
Channels	Each channel logs at one sample per ten seconds at 16 bit and is suitable for	
	external sensing of temperature, humidity etc.	
Operating Temperature	0 – 40°C	
Operating Environment	Laboratory conditions. Dust and splash resistant	
PC Interface	Interface to PC through a standard RS232 serial port	
Power supply	Universal mains input voltage	
Firmware updates	FLASH update of firmware via PC	

EXPONENT Stable Micro Systems

**NB: EXPONENT software is included with both models*

RECOMMENDED PC SPECIFICATION FOR EXPONENT SOFTWARE

- 500+MHz Pentium 3 or AMD Athlon
- 128+Mb RAM
- SVGA Graphics (800 x 600 x 256 colours)
- 200Mb of free hard disc space
- CD-ROM (or better)
- Windows 95, 98, NT4, ME, 2000 or XP Home / XP Professional
- RS 232 @ 115,200 Baud port (if connected to TA.XT*plus*)
- Mouse
- Sound card (optional)
- Internet access for updating purposes (optional)
- Printer (optional)

Stable Micro Systems

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