

pliance® -x system



pliance-x

The **pliance-x** electronic analyser connects up to 1024 sensors to a desktop, notebook PC or handheld PDA. Collected data can be stored on the flash memory or transmitted online to a PC or Pocket PC (PDA) via the built-in telemetry.

Technical data for **pliance-x**

dimensions (mm)	150x100x40
weight (g)	360
number of sensors (max)	256 (1024)
measurement frequency	20,000 sensors/second
storage type	32MB internal flash
operating system	Windows XP, Service Pack2
power supply	NiMH battery, 4.5 hours
computer interface	fiber optic/USB and Bluetooth™
sync option	fiber optic/TTL, in and out/wireless
telemetry	Bluetooth™
wireless remote ctrl.	FM
recording time	25 min at 100 Hz to flash memory

pliance-x software

The software is written for Windows operating systems. It is user friendly and contains many useful options for fast pressure data collection, analysis and data presentation. It is embedded in the **novel** scientific analysis programs and databases.



screenshot of knee measurement

pliance® sensors

Features of **pliance®** sensors:

- elastic
- highly compliant
- accurate
- reproducible
- low hysteresis
- thin
- low temperature effect
- sterilizable
- water protection optional
- custom designable
- calibrated

trublu® calibration device



trublu®
calibration device

With the aid of the **trublu®** calibration device, all sensors are individually and simultaneously calibrated with homogeneous air pressure. Calibration guarantees accurate and reproducible data collection. Calibration systems are available at various sizes.

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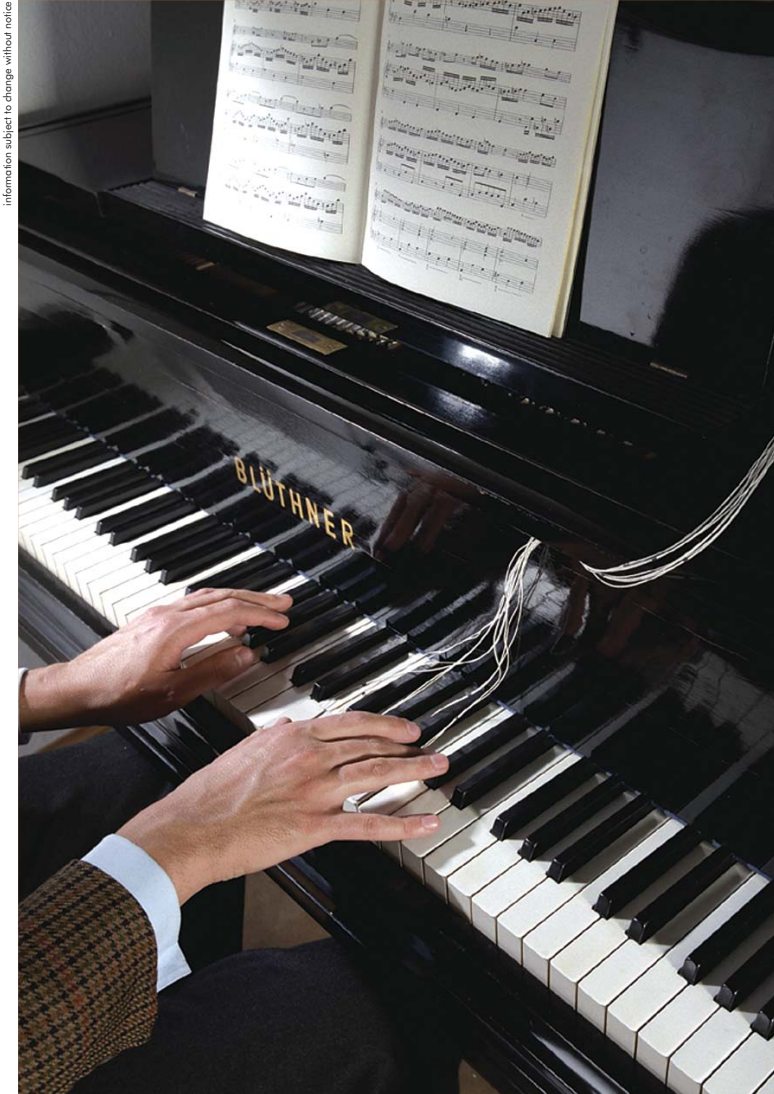
All systems from novel operate with high quality, calibrated sensors and provide reliable and reproducible long term measurements. pedograph®, emed®, pedar®, pliance®, trublu® and the novel logo (colored foot) are the registered trademarks of novelgmbh © 1992-2008

pliance®

sensors



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sensors_eng/M_V_Doc/27/2008

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art in science

The **pliance**[®] sensor family has been developed by **novel** for the special needs of researchers and clinicians. Using its long experience in pressure distribution measurement and its know-how, **novel** can develop custom sensor designs to meet customer needs.

The basis of the **novel** system is capacitive sensor technology. All sensors are individually calibrated and provide accurate and reliable pressure data.

Standard sensors are available in various shapes and sizes. They can be configured as single sensors or arranged in a matrix to fit different measuring surfaces. Various pressure ranges can be achieved as well as various sensor thickness.

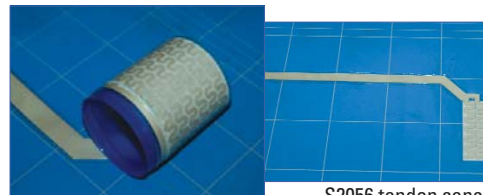
Flexibility and elasticity are two of the relevant characteristics of **novel** sensors. Proper material selection and design give **novel** sensors the ability to conform around highly contoured sites without wrinkling.

An assortment of coatings can be applied to **novel** sensors. Some **novel** sensors can be sterilised and utilised in physiological environments in vitro and in vivo during surgical procedure.



tool sensors

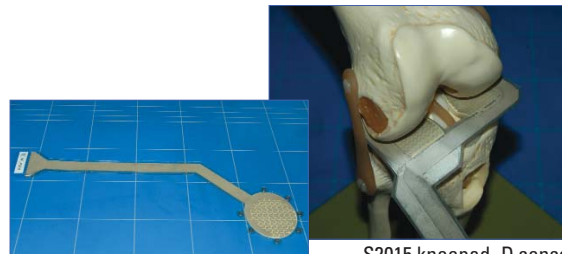
Product ID	Name	Sensing Area (mm ²)	Number of sensors
S 2001	RLS sensor	20 x 20	4 x 4
S 2002	RLS sensor c	20 x 20	4 x 4
S 2003	socket sensor XL	40 x 40	4 x 4
S 2004	socket sensor XL	30 x 30	3 x 3
S 2005	socket sensor XL	20 x 20	2 x 2
S 2006	strip sensor	10 x 100	1 x 10
S 2007	long strip sensor	160 x 8	10 x 3
S 2008	4 x 4 strip sensor	32 x 10,67	4 x 4
S 2009	strip sensor 27	40 x 8	10 x 3



S2054 lateral sensor

S2056 tendon sensor

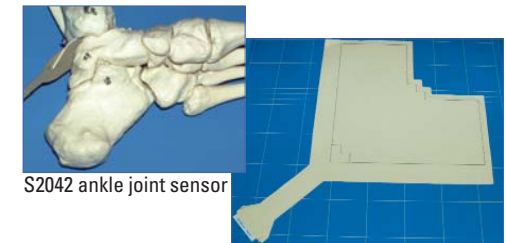
Product ID	Name	Sensing Area (mm ²)	Number of sensors
S 2014	kneepad_S	43 x 21,5	16 x 8
S 2015	kneepad_D	43 x 43	16 x 16
S 2016	pedoped [®] Diro	40,64 x 40,64	16 x 16
S 2017	pedoped [®] HR	40,64 x 40,64	16 x 16
S 2018	hand wrist sensor	533	4 x 10
S 2019	bike saddle mat	286,8 x 286,8	234



S2039 patella sensor

S2015 kneepad_D sensor

Product ID	Name	Sensing Area (mm ²)	Number of sensors
S 2020	Elastisens HA 125	200 x 200	16 x 16
S 2021	Elastisens HA 87	140 x 140	16 x 16
S 2022	Elastisens HA 78	125 x 125	16 x 16
S 2023	Elastisens HA 44	70,4 x 70,4	16 x 16
S 2024	Elastisens FO 44	70,4 x 70,4	16 x 16
S 2026	glove sensor	12896	125



S2042 ankle joint sensor

S2047 baby chest sensor

Product ID	Name	Sensing Area (mm ²)	Number of sensors
S 2027	pliance sensor mat 392 k	392 x 392	16 x 16
S 2028	pliance sensor mat 448 k	448 x 448	32 x 32
S 2029	pliance sensor mat 506 k	506 x 506	32 x 32
S 2034	pliance sensor mat HW k	248 x 752 (each mat)	256
S 2039	patella sensor	1988	85
S 2041	IOP matte	320 x 160	32 x 32
S 2042	st sensor	28 x 45	194
S 2054	Elastisens ES-90-150/60-10	248 x 752 (each mat)	256
S 2080	single sensor Ø 15	176	1



S2018 hand wrist sensor