

SENSOR SPECIFICATION SHEET

PRODUCT DESCRIPTION

The **X3** LX100:36.36.02 sensor provides highly accurate analyses of seat surfaces and is ideal for applications where high repeatability, low hysteresis and minimal creep characteristics are most important. This sensor also has excellent calibration stability, leading to consistent data over thousands of cycles, which lowers the total cost of ownership. This sensor has 1,296 sensing points.

AVAILABLE CALIBRATION RANGES

5-50mmHg, 5-100mmHg, 10-200mmHg

PHYSICAL CHARACTERISTICS

Total Area	25" x 25"	63.5cm x 63.5cm
Sensing Area	18" x 18"	45.7cm X 45.7cm
Spatial Resolution	0.5"	12.7mm
Thickness (Sensing Area, compressed)	0.032"	0.81mm
Thickness (Sensing Area, uncompressed)	0.041"	1.04mm
Thickness (Border – cabling side)	0.06"	1.6mm
Border Width (cabling side)	3.5"	8.9cm
Border Width (non-cabling side)	3.5"	8.9cm
Cable	42" x 2" x 0.18"	106.7cm x 5.1cm x 0.5cm
Connector	4.76" x 2.76" x 0.09"	12.1cm x 7.0cm x 0.2cm

ENVIRONMENT

Ambient Temperature	10°C – 40°C
Relative Humidity	5% - 90%

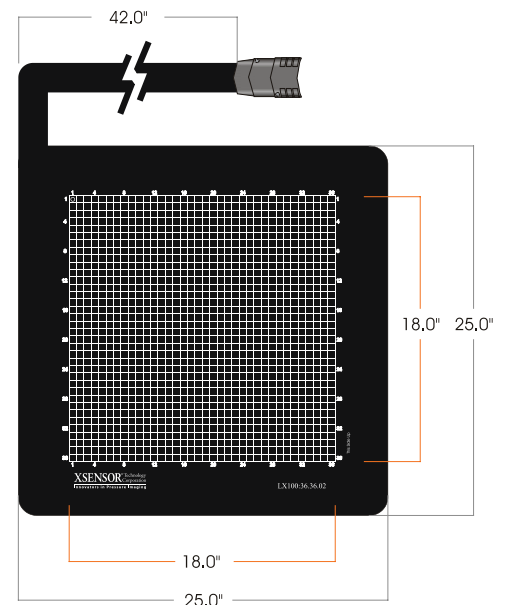
PERFORMANCE CHARACTERISTICS*

Calibration Stability	Calibration remains within ± 4 mmHg ($\pm 2\%$ full scale) of the initial calibration after five years of accelerated lifetime testing, based on the ASTM F1566-99 (section 9) standard.
Repeatability	Over 1743 measurements, 99.7% of measurements remained within 6 mmHg (3 standard deviations) of the average value.
Hysteresis	< 7% full scale error
Creep (1 hr)	< 3.5% (after 1 hour at 100 mmHg)
Frame Rate**	60 frames per second**
Frequency Response	50Hz (3dB point)
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

**With an Intel Core 2 Duo processor and XSENSOR's PRO v6.0 software. Results may vary with other configurations.

All sensors require **X3** PRO electronics, **X3** PRO v6.0 software, **X3** PRO sensor pack(s), **X3** USB CABLE, **X3** POWER SUPPLY, and **X3** CARRY CASE.



SENSOR SPECIFICATION SHEET

PRODUCT DESCRIPTION

The **X3** LX100:40.40.02 sensor provides highly accurate analyses of seat surfaces and is ideal for applications where high repeatability, low hysteresis and minimal creep characteristics are most important. This sensor also has excellent calibration stability, leading to consistent data over thousands of cycles, which lowers the total cost of ownership. This sensor has 1,600 sensing points.

AVAILABLE CALIBRATION RANGES

5-50mmHg, 5-100mmHg, 10-200mmHg

PHYSICAL CHARACTERISTICS

Total Area	27" x 27"	68.6cm x 68.6cm
Sensing Area	20" x 20"	50.8cm X 50.8cm
Spatial Resolution	0.5"	12.7mm
Thickness (Sensing Area, compressed)	0.032"	0.81mm
Thickness (Sensing Area, uncompressed)	0.041"	1.04mm
Thickness (Border – cabling side)	0.06"	1.6mm
Border Width (cabling side)	3.5"	8.9cm
Border Width (non-cabling side)	3.5"	8.9cm
Cable	42" x 2" x 0.18"	106.7cm x 5.1cm x 0.5cm
Connector	4.76" x 2.76" x 0.09"	12.1cm x 7.0cm x 0.2cm

ENVIRONMENT

Ambient Temperature	10°C – 40°C
Relative Humidity	5% - 90%

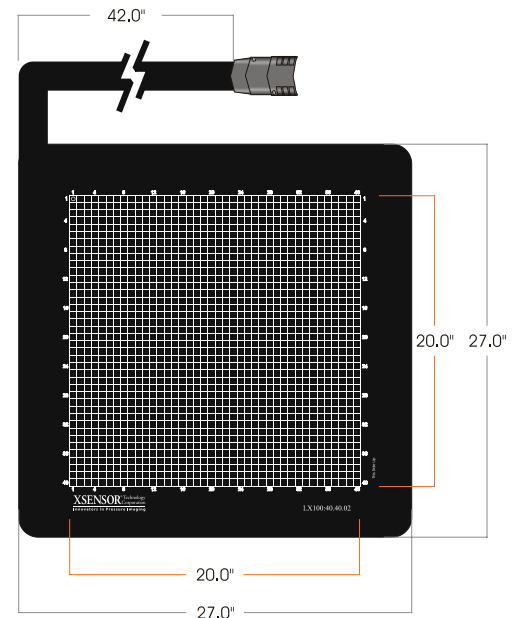
PERFORMANCE CHARACTERISTICS*

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Repeatability	Over 1743 measurements, 99.7% of measurements remained within 6 mmHg (3 standard deviations) of the average value.
Hysteresis	< 7% full scale error
Creep (1 hr)	< 3.5% (after 1 hour at 100 mmHg)
Frame Rate**	60 frames per second**
Frequency Response	50Hz (3dB point)
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

**With an Intel Core 2 Duo processor and XSENSOR's PRO v6.0 software. Results may vary with other configurations.

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SENSOR SPECIFICATION SHEET

PRODUCT DESCRIPTION

The **X3 LX100:48.48.02** sensor provides highly accurate analyses of seat surfaces and is ideal for applications where high repeatability, low hysteresis and minimal creep characteristics are most important. This sensor also has excellent calibration stability, leading to consistent data over thousands of cycles, which lowers the total cost of ownership. This sensor has 2,304 sensing points.

AVAILABLE CALIBRATION RANGES

5-50mmHg, 5-100mmHg, 10-200mmHg

PHYSICAL CHARACTERISTICS

Total Area	31" x 31"	78.7cm x 78.7cm
Sensing Area	24" x 24"	60.9cm x 60.9cm
Spatial Resolution	0.5"	12.7mm
Thickness (Sensing Area, compressed)	0.032"	0.81mm
Thickness (Sensing Area, uncompressed)	0.041"	1.04mm
Thickness (Border – cabling side)	0.06"	1.6mm
Border Width (cabling side)	3.5"	8.9cm
Border Width (non-cabling side)	3.5"	8.9cm
Cable	42" x 2" x 0.18"	106.7cm x 5.1cm x 0.5cm
Connector	4.76" x 2.76" x 0.09"	12.1cm x 7.0cm x 0.2cm

ENVIRONMENT

Ambient Temperature	10°C – 40°C
Relative Humidity	5% - 90%

PERFORMANCE CHARACTERISTICS*

Calibration Stability	Calibration remains within ± 4 mmHg ($\pm 2\%$ full scale) of the initial calibration after five years of accelerated lifetime testing, based on the ASTM F1566-99 (section 9) standard.
Repeatability	Over 1743 measurements, 99.7% of measurements remained within 6 mmHg (3 standard deviations) of the average value.
Hysteresis	< 7% full scale error
Creep (1 hr)	< 3.5% (after 1 hour at 100 mmHg)
Frame Rate**	60 frames per second**
Frequency Response	50Hz (3dB point)
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

**With an Intel Core 2 Duo processor and XSENSOR's PRO v6.0 software. Results may vary with other configurations.

All sensors require **X3 PRO** electronics, **X3 PRO v6.0** software, **X3 PRO** sensor pack(s), **X3** USB CABLE, **X3** POWER SUPPLY, and **X3** CARRY CASE.

