

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

PERFORMANCE CHARACTERISTICS*

Calibration Stability	95% at 100,000 cycles
Repeatability	98%
Hysteresis	< 7% full scale error
Creep (1 hr)	< 5% (after one hour at 100 mmHg)
Frame Rate**	60 frames per second**
Response Speed (3dB point)	> 50Hz
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

PHYSICAL CHARACTERISTICS

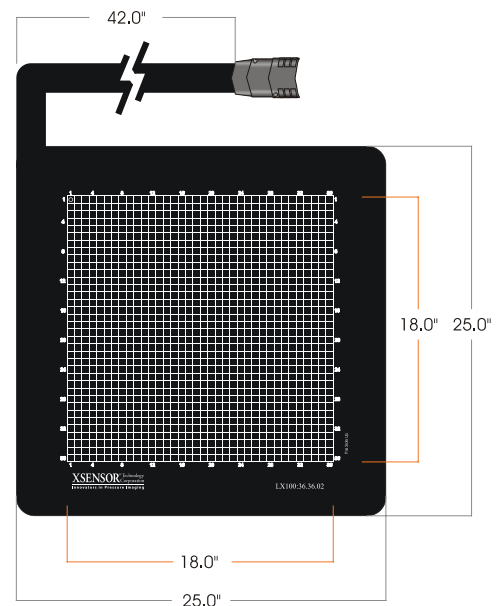
Total Area	25" x 25"	63.5cm x 63.5cm
Sensing Area	18" x 18"	45.7cm X 45.7cm
Spatial Resolution	0.5"	12.7mm
Thickness (Sensing Area, compressed)	0.032"	0.81mm
Thickness (Sensing Area, uncompressed)	0.041"	1.04mm
Thickness (Border – cabling side)	0.06"	1.6mm
Border Width (cabling side)	3.5"	8.9cm
Border 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
Ambient Humidity	5% – 90% RH

**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

PERFORMANCE CHARACTERISTICS*

Calibration Stability	95% at 100,000 cycles
Repeatability	98%
Hysteresis	< 7% full scale error
Creep (1 hr)	< 5% (after one hour at 100 mmHg)
Frame Rate**	52 frames per second**
Response Speed (3dB point)	> 50Hz
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

PHYSICAL CHARACTERISTICS

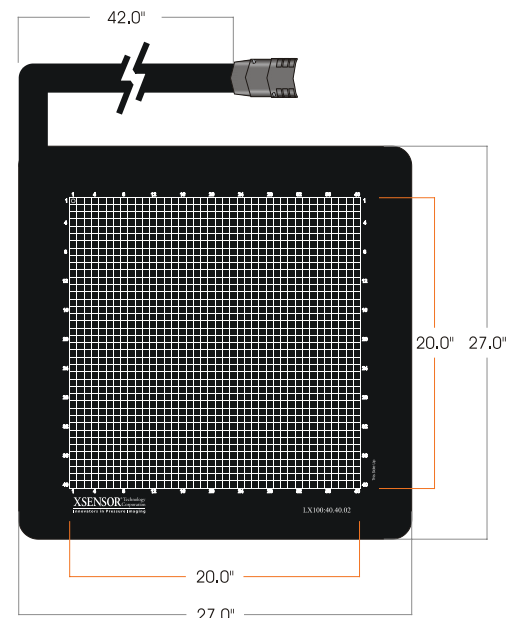
Total Area	27" x 27"	68.6cm x 68.6cm
Sensing Area	20" x 20"	50.8cm X 50.8cm
Spatial Resolution	0.5"	12.7mm
Thickness (Sensing Area, compressed)	0.032"	0.81mm
Thickness (Sensing Area, uncompressed)	0.041"	1.04mm
Thickness (Border – cabling side)	0.06"	1.6mm
Border Width (cabling side)	3.5"	8.9cm
Border 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
Ambient Humidity	5% – 90% RH

**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** LX100:48.48.02 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

PERFORMANCE CHARACTERISTICS*

Calibration Stability	95% at 100,000 cycles
Repeatability	98%
Hysteresis	< 7% full scale error
Creep (1 hr)	< 5% (after one hour at 100 mmHg)
Frame Rate**	47 frames per second**
Response Speed (3dB point)	> 50Hz
Environmental Variation	< 2% over operational range

*Tested at 10-200mmHg calibration range

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
Ambient Humidity	5% – 90% RH

**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.

