

SPECIFICATIONS

CENTRAL UNIT

Server	PC running Linux RedHat WS4
Client	PC running Windows 2000, XP or Linux
LCI-428	2U 19"rack mountable unit, used to manage up to 2500 Receiver Points(RP) real time @ 2ms
BCXU-428	2U 19"rack mountable unit, used for cable interface and high voltage generation(DC voltage adjustable up to 600V). A BCXU-428 is able to manage up to 400 Receiver Points.
Maximum Line Lengths	19500m @ 50m, without full redundancy 10000m @ 50m, with full redundancy 10000m @ 25m, without full redundancy 5000m @ 25m, with full redundancy

SENSOR UNIT-GENERAL

Sensor Components	3 Omni-tilt Digital Accelerometer and 1 Hydrophone
Receiver Point Spacing	25m
Sample Rates	4, 2, 1, 0.5, 0.25 ms
Word Size	24bits
High-cut Filter	0.8 FN (linear or minimum phase)
Time Standard	True synchronous system
Phase Accuracy	20 μ s

SENSOR UNIT-DIGITAL ACCELEROMETER

Type	Omni-tilt DSU-428
Full Scale	5 m/s ²
Tilt Max Value	+/- 180°
Bandwidth	0 - 400 Hz (up to 1600 Hz with degraded specifications)
Distortion	-90dB
Amplitude Calibration Accuracy	+/- 0.25%
Orthogonality Calibration Accuracy	+/- 0.25°

SENSOR UNIT-HYDROPHONE

Type	Charge-coupled piezoelectric cylinders
Bandwidth	3 - 1600 Hz
Electronic	
Instant dynamic range	124 dB
System dynamic range	136 dB
Distortion	-105dB
CMRR	100dB
Gain Accuracy	< 0.1%

PHYSICAL

Sensor Package	Flatpack
Maximum Outside Width	174 mm
Maximum Outside Height	71 mm
Stiff Length	392 mm
Weight in Air	14.15 kg
Weight in Seawater	10.88 kg
Operating Temperature	0°C to +40°C (-15°C to +40°C with degraded performances)
Storage Temperature	-40°C to +60°C

BULK CABLE

Operating Depth	100 m
Cable Outside Diameter	21 mm
Weight in Air	560 kg/km
Weight in Seawater	205 kg/km
Operating Linear Tension	4.5 kN
Breaking Tension	22 kN