



Compatt Depth Sensors

DIGIQUARTZ

Pressure range (psia)	500	2000	3000
Full scale water depth (m)	335	1360	2050
Manufacturer's accuracy figure:	± 0.01% fso = 0.05 psi = 0.034 m = 0.11 ft = 1.34 "	± 0.01% fso = 0.2 psi = 0.14 m = 0.44 ft = 5.3 "	± 0.01% fso = 0.3 psi = 0.21 m = 0.65 ft = 8.06 "
9 second reading (CQ)	± 0.0139 psi	± 0.055 psi	± 0.0833 psi
Resolution: (4kHz range)	= 9.5 mm = 0.375 "	= 38 mm = 1.5 "	= 57 mm = 2.25 "
1 second reading(CY, FS)	± 0.125 psi	± 0.50 psi	± 0.75 psi
Resolution(4kHz range)	= 86 mm = 3.4 "	= 340 mm = 13.4 "	= 510 mm = 20 "

STRAIN GAUGE

Pressure range:	35 bar	135 bar	250 bar
Sensor:	60 bar Druck	135 bar Druck	250 bar Druck
Depth range:	350m	1350m	2500m
Accuracy:	± 0.2% fso = ± 0.7m = ± 2.3 ft	± 0.2% fso = ± 2.7m = ± 20 ft	± 0.2% fso = ± 5.0m = ± 16 ft
Resolution:	1 in 4096 (12 bit) = ± 0.085m = ± 3.3 "	1 in 4096 (12 bit) = ± 0.32m = ± 1.0 ft	1 in 2048 (11 bit) = ± 1.2m = ± 4.0 ft

LUCAS-SCHAEVITZ LSOP INCLINOMETERS

Range	± 14.5 °	± 5°	± 90 °
Output	± 5 V	± 5 V	± 5 V
Nominal Scale Factor	20	57.37	5
Signal conditioning output	0 - 4 V	0 - 4 V	0 - 4 V
ADC resolution	1 mV, 12 bit	1 mV, 12 bit	1 mV, 12 bit
F/w scaling	± 4.000 V	± 4.000 V	± 4.000 V
Telemetry resolution, signed 11 bit	LSB = 2mV	LSB = 2mV	LSB = 2mV
Telemetred data range	± 4 V	± 4 V	± 4 V
Volts to degrees formula (Mk4 Compatt only)	deg = arc sin [V / 16]	deg = arc sin [V / 45.895]	deg = arc sin [V / 4]
Telem. resolution , near 0 °	0.007 °	0.0025 °	0.02 °
Telem. resolution near full-scale	0.007 °	0.0025 °	1.9 °
Accuracy of sensor(near 0 °)	± 0.02% fro of sensor equiv. 1mV equiv. ± 0.003 °	± 0.02% fro of sensor equiv. 1mV equiv. ± 0.001 °	± 0.02% fro of sensor equiv. 1mV equiv. ± 0.02 °
Quoted accuracy via Compatt	± 0.1 °	± 0.03 °	± 0.6 ° (0 to ±45) ± 2.0 ° (±45 to ± 90)