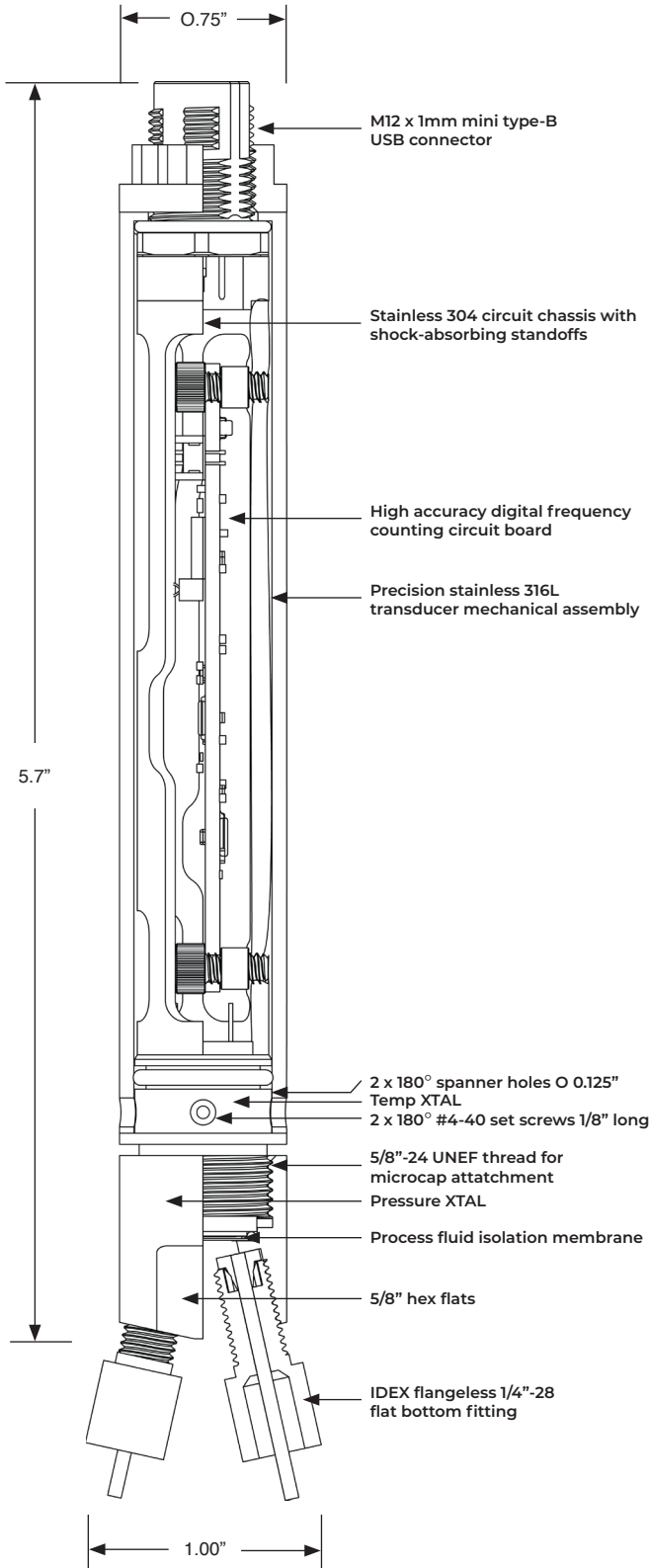


PHASE ADVANCED SENSOR SYSTEMS
PASSION REFLECTED THROUGH DESIGN



XTALX MICRO LABORATORY USB
QUARTZ PRESSURE SENSOR
MICRO LUQS-0000-1111
0000: PRESSURE RATING
1111: TEMPERATURE RATING



SPECIFICATION HIGHLIGHTS

CALIBRATED RANGE	-----	13.5 TO 100psi (1 TO 6.89 BAR)
CALIBRATED TEMPERATURE RANGE	-----	15° TO 40°C
PRESSURE ACCURACY	-----	0.01%
DRIFT @ MAX TEMPERATURE & PRESSURE	-----	0.1%F.S./YEAR
TEMPERATURE ACCURACY	-----	0.05°C
DRIFT @ MAX TEMPERATURE & PRESSURE	-----	0.01°C/YEAR

MECHANICAL SPECIFICATIONS

WEIGHT	-----	150 grams
HEIGHT	-----	5.7 inches
MAXIMUM WIDTH	-----	0.75 inches
PROOF PRESSURE	-----	2,000psi (138 BAR)
DEADVOLUME	-----	16.5 µL

ELECTRICAL SPECIFICATIONS

MAXIMUM VOLTAGE RATINGS	-----	0.3 TO 24V DC
VOLTAGE SUPPLY RANGE	-----	3.5 TO 20V DC
CURRENT DRAW @ 25°C	-----	24mA
CURRENT DRAW @ FS TEMP	-----	25mA
OUTPUT	-----	USB 2.0
ESD	-----	IEC 61000-4-2 ±15 kV

OSCILLATOR SPECIFICATIONS

NOMINAL REFERENCE FREQUENCY	-----	170 MHz ± 10 PPM
NOMINAL PRESSURE FREQUENCY	-----	52 KHz ± 500 hZ
NOMINAL TEMPERATURE FREQUENCY	-----	262 KHz ± 200 hZ

ADDITIONAL SPECIFICATIONS

STORAGE TEMPERATURE	-----	-25° TO 85°C
ACHIEVABLE RESOLUTION	-----	0.002psi
REPEATABILITY	-----	0.01 %F.S.
NOMINAL SENSITIVITY	-----	3psi/Hz
RESPONSE TIME	-----	0.1 S
GRAVITATIONAL EFFECTS	-----	NEGLIGIBLE
ORIENTATIONAL EFFECTS	-----	NEGLIGIBLE
ACCELERATION SENSITIVITY	-----	NEGLIGIBLE
STARTUP TIME @ 25°C	-----	<1 S
PEAK INRUSH CURRENT @ 25°C	-----	25 mA
STARTUP TIME @ FS TEMP	-----	<1 S
PEAK INRUSH CURRENT @ FS TEMP	-----	26 mA