

Model 1020

by *Subsea* Import Corporation

User Integrated Custom Communications Board Set

The Subsea's Model 1020 is a high-performance communications system which is designed to fill custom underwater communications requirements. The design is ideal for custom communications requirements in one atmosphere diving suits and small submersibles. The Model 1020 provides up to 3 km communications range. The transmitter is voice-activated (VOX) or PTT (push-to-talk), selectable by the user – thus allowing greater freedom in custom applications.



Subsea's technology is unequalled in terms of:

- *clarity of speech,*
- *extended range in both fresh and salt water*
- *clear communications in strong currents, around obstacles and in enclosed areas*
- *ease of integration and use*
- *long battery life*
- *rugged reliability in professional use.*

Advanced technology contributes to the superior quality and clarity of sound in the Subsea Model 1020. Sophisticated electronic circuitry and filtering techniques are utilized to enhance speech clarity and reduce extraneous noises, thereby providing optimum clarity under adverse conditions. The Scubaphone 1080SX (shown below) or the Subphone Model 580TX are recommended as the surface station for the Subsea Model 1020.



The Model 1020 — like all of Subsea's products — employs crystal-controlled single side band (SSB) ultrasonic techniques. Subsea's SSB technology provides distortion free transmissions and extended battery life. Users will enjoy clear communications even in strong currents or waters crowded with ships, wharf pilings, or debris and even while inside sunken ships, pipes or other enclosed areas. The Subsea Model 1020 is compatible with all other Subsea communications products.

By **Subsea Import Corporation**
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The Subsea Model 1020 custom communications board set is the answer to reliable, easy-to-use, and extremely clear wireless medium range underwater communications where the user requires a custom solution to meet their underwater communications needs (up to 3Km under calm open water conditions).

The Subsea Model 1020 is an easy to mount communication board set measuring H = 5.5cm, L = 15.3cm, W = 7.6cm excluding the connectors which can be eliminated or installed flush to the edge of the circuit boards. Complete control of the communications system is provided through the connectors mounted at one end of the board set. All controls are high impedance and electronically switched to prevent any chance of sparks or arcing from controls.

	Subsea Model 1020
Operating Frequency	User defined Custom frequency options available including Custom frequencies.
Modulation	Upper Single Sideband Suppressed Carrier
Transmitter Activation	PTT (push-to talk) or VOX
Transmitter Power	5 Watts rms
Receiver Audio Power	1 Watts rms
Receiver Gain Control	Automatic, AGC > 90dB
Nominal Range open calm water	3 Km at 27kHz
Maximum Operating Depth	1 atmosphere, dry
Power	15VDC recommended
Pinger Mode	Transmits a 15msec pulse every second for emergency locating purposes
Operating Temperature	-20°C to 60°C -4°F to 140°F
Speaker & Microphone	User defined, headset with boom mic option is also available

All specifications are subject to change without notice.