

It should be possible to make key foot keyboards in which the 'keys' do not move at all. Already 'key-clicks' are simulated rather than real. Some mechanism (contact potential, obscuring a photodetector etc) in the key-top could easily replace physical movements of keys.

ASCII / BTFM Phone transmission

'Touch tone' or dual-tone multifrequency telephones operate by sending one of a group of four low tones (697, 770, 852, or 941 cycles) plus one of a group of four high tones (1209, 1336, 1447, 1633 1/2 cycles) to define digits 0-9 and '*' and '#'. (Actually 16 possibilities, 4x4). Use of all eight tones allows exactly one byte to be defined (2⁸). A complete 256-character set can be defined with one block using 0 to 8 of these frequencies on existing equipment only.

Ref. J.A. Kuecken, 'Using computers and telecommunications', p.33.

VELOCITY OF SOUND IN 2 MEDIA

Velocity of sound in:

air	hydrogen	diatomic Helium	water	steel
1048	4220	4000	4760	
			at 59°F	

$$v = \sqrt{\frac{\gamma P}{d}}$$
 where γ = ratio of specific heats, P = pressure, d = density.

For solids, $v = \sqrt{\frac{B}{d}}$ where B = bulk density.

air	water	nickel steel
$B = 310,000,000$		$30,000,000,000$

For diatomic gas, $\gamma = 1.40$
 For monatomic gas, $\gamma = 1.60$.

* Can this be exploited to extract energy / give information, like a bi-metallic strip extracts temperature information or current?