Logatronik
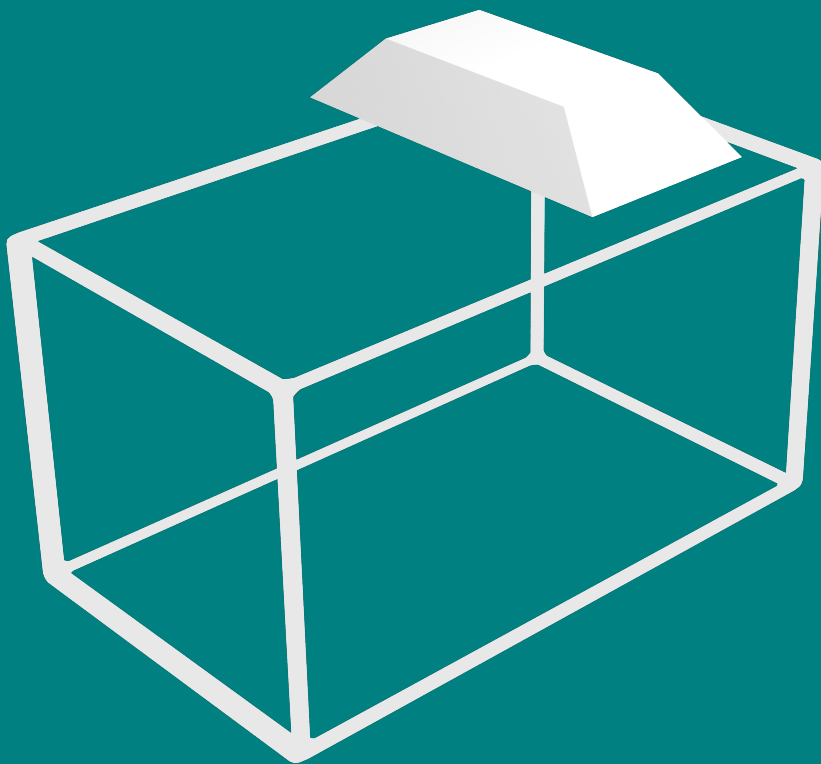
Morse Code Human Interface Device

Owner's Manual

Type A [En/De]

Contents

1 Welcome!

The Morse Code Human Interface Device let's you use the full power of *morse code* on your computer; Be no longer slave to the over engineered keyboard and enjoy true minmalism with MCHID!
Thank you for choosing Logatronik to dive into this brave new world of oneness with the digital.

2 Installation

To install the device simply connect it with a pc. The drivers should automatically be installed. Due to technical limitations Ä, Ö, Ü are only supported when the computer is set to the US international keyboard and might lead to unexpected results otherwise.

3 The Morse Code used

The code used is mostly the same as the ITU[1] standard,
with the addition of German letters, though their support
is limited (see section 2). Further there are no letters
longer than 5 morse signs implemented (except deletion
(which is anything longer than that)). The usual "CH"
is replaced by a space, " ".

Finally a few non-standard codes have been added (as
they are longer than 5 signs) such as ".", ";", "+", "-",
"*" and "enter". The exact translations can be extracted
from figure 1.

Dot-time: The maximal duration for a dot is about 170ms

Dash-time: The maximal duration for a dash is three
times that of a dot

Deletion: If the length of an input sequence for a sin-
gle character exceeds 6, the MCHID will delete the
previous letter for any further press of the button,
until there is no further input for the duration of a
dash.

Space: There are three ways to create spaces (see sec-
tion 4 on how to select them).

> **Long Press:** By pressing the button longer than a
> dash-time a space is written.

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[1]International Telecommunication Union

Timed: After the duration of 7 dots of the switch not being pressed a space is written (One can hold the button down to avoid printing anything, if this option is selected and the first one is not).

4 dashes: Probably annoying after a while, but that's why there are other options.

4 Modifications

There is already support in the MCHID for some customization, though the intrigued might want to go further; your imagination is the only limit!

Change Space printing mode: When Pin 2 is connected to ground (GND) the "Long Press" mode is used. When pin 3 pin is connected to ground the "Timed" mode is activated.
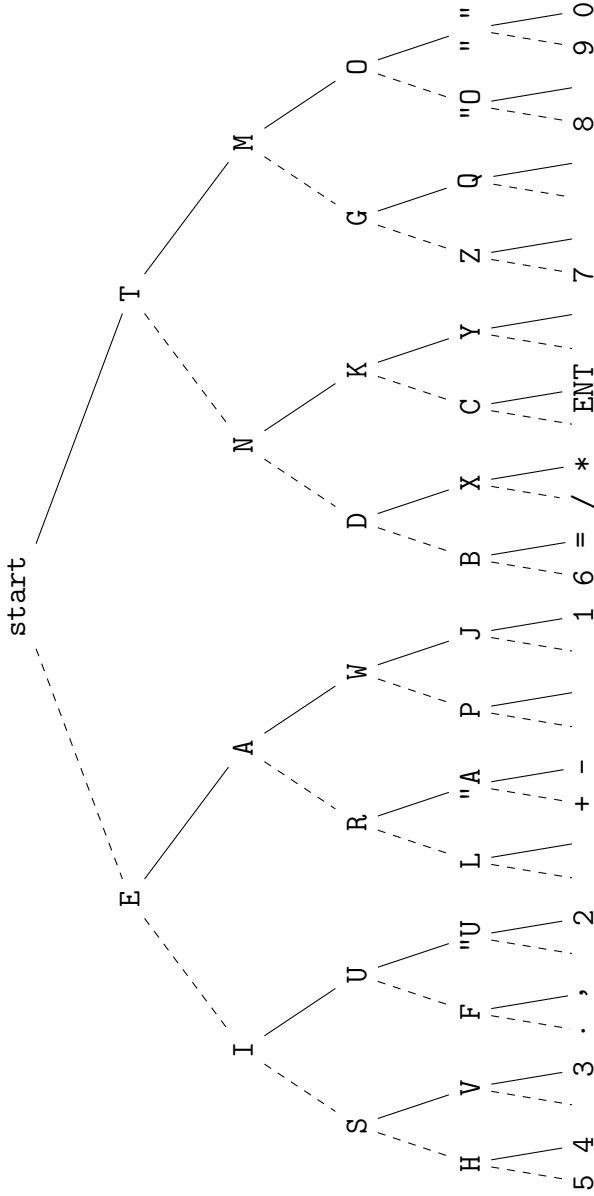Both modes can be activated simultaniously, though you will need a second connector.

Figure 1: The Tree of the implemented code