APPENDIX F - PARAMETER DESCRIPTION

<table>
<tr><td colspan="2" align="center">MAIN PARAMETERS - tab SETTINGS</td></tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
AccessCode :   5◄
Language   : Englis
AddressRS :   3
</pre>
</td>
<td>
ACCESS CODE (Lc) - access code settings:

0 –no access code (all other parameters are visible without the need to enter the access code);
any value different from 0 makes it possible to enter the programming mode after entering this value;
5 –factory-set access code..

</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
Language   : Engli◄
AddressRS :   3
Time Zone :   1
</pre>
</td>
<td>LANGUAGE - selection of the language version of the software</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
AddressRS :   3◄
Time Zone :   1
Time Change: Yes
</pre>
</td>
<td>
AddressRS - device address

makes it possible to identify the device in use, with a computer or telephone (especially when several devices operate in the network);

</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
Time Zone :   1◄
Time Change: Yes
Max THV Back: 9.99
</pre>
</td>
<td>
Time zone (St) - time zone - the parameter takes values from -12 to 12 according to the division of time zones:

0 - UTC+/-00:00
1 - UTC+01:00 (np.: Poland) - summer time: UTC+02:00;
2 - UTC+02:00 (np.: Ukraine) - summer time: UTC+03:00;
3 - UTC+03:00 (np.: Belarus).

</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
Time Change: Yes◄
Max THV Back: 9.99
Preset T/Q : Time
</pre>
</td>
<td>
Time change (L_Z) - summer/winter time:

Yes - if there is a time change in the country of installation (e.g. Poland, Ukraine)
No - if there is no time change in the country of installation (e.g. Belarus)

</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
HtOffDly [s]: 0.30◄
HdOffDly [s]: 0.50
Current Prog: 13
</pre>
</td>
<td>HtOffDly (toFH)- (applies to the 3E system) delay in disconnecting the heart electrode (in the absence of contact with the animal's body)</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
HdOffDly [s]: 0.50◄
Current Prog: 13
ErrStat   : Yes
</pre>
</td>
<td>HdOffDly (TSG) - (applies to the 3E system) delay in disconnecting head electrode</td>
</tr>
<tr>
<td>
<pre>
◄ SETTINGS ► :13
Current Prog: 13◄
ErrStat   : Yes
ClrCntStun :   0
</pre>
</td>
<td>Current Prog (Pr) - Current stunning program number</td>
</tr>
<tr><td colspan="2" align="center">Parameters for the individual stunning programs - 1 PHASE, 2 PHASE, 3 PHASE tabs
parameters should be set separately for each of the 3 stunning phases</td></tr>
<tr>
<td>
<pre>
◄ SECTION 1 :13► :13
Phase Type : w2 ◄
PhaseTime[s]: 2.0
Preset V/A :   I ↕
</pre>
</td>
<td>
Phase type (tP 0,1,2,3)
w2 stunning with 2 electrodes (sinusoidal)
w3 stunning with 3 electrodes (sinusoidal)
</td>
</tr>
</table>

|	
◄ SECTION 1 :13► :13 Phase Type : ω3 ◄ PhaseTime[s]: 2.0 Preset V/A : I ♦	
◄ SECTION 1 :13► :13 PhaseTime[s]: 2.0◄ Preset V/A : I Start f[Hz]: 500♦	**Phase time (dl 1,2,3) - duration of the phase**: ● 1 PHASE - the value of the Phase Time parameter cannot be lower than 1.0 s; ● PHASE 2, PHASE 3 - for Phase Time = 0, the phase will be skipped.
◄ SECTION 1 :13► :13 Preset V/A : I ◄ Start f[Hz]: 500 End f[Hz]: 500♦ ◄ SECTION 1 :13► :13 Preset V/A : U ◄ Start f[Hz]: 500 End f[Hz]: 500♦	**Preset V / A (AMP)** - device operation mode selection ● **I** - current mode (current regulation - **Start I / End I**) ● **U** - voltage mode (voltage regulation - **Start I / End U**)
◄ SECTION 1 :13► :13 Start f[Hz]: 500◄ End f[Hz]: 500 Start I[A]: 1.30♦	**Start f* (Fr1b)** - starting frequency for a given phase
◄ SECTION 1 :13► :13 End f[Hz]: 500◄ Start I[A]: 1.30 End I[A]: 1.30♦	**End f* (Fr1E)** - finishing frequency for a given phase
◄ SECTION 1 :13► :13 Start I[A]: 1.30◄ End I[A]: 1.30 Phase Type : ω2 ♦	**Start I* (SP1b)** - starting stunning current for a given phase (for **Preset V / A = I**)
◄ SECTION 1 :13► :13 End I[A]: 1.30◄ Phase Type : ω2 PhaseTime[s]: 2.0♦	**End I* (SP1E)** - finishing stunning current for a given phase (for **Preset V / A = I**)
◄ SECTION 1 :13► :13 Start U[V]: 80◄ End U[V]: 80 Phase Type : ω2 ♦	**Start U* (SPUb)** - starting stunning voltage for a given phase (for **Preset V / A = U**)
◄ SECTION 1 :13► :13 End U[V]: 80◄ Phase Type : ω2 PhaseTime[s]: 2.0♦	**End U* (SPUE)** - finishing stunning voltage for a given phase (for **Preset V / A = U**)
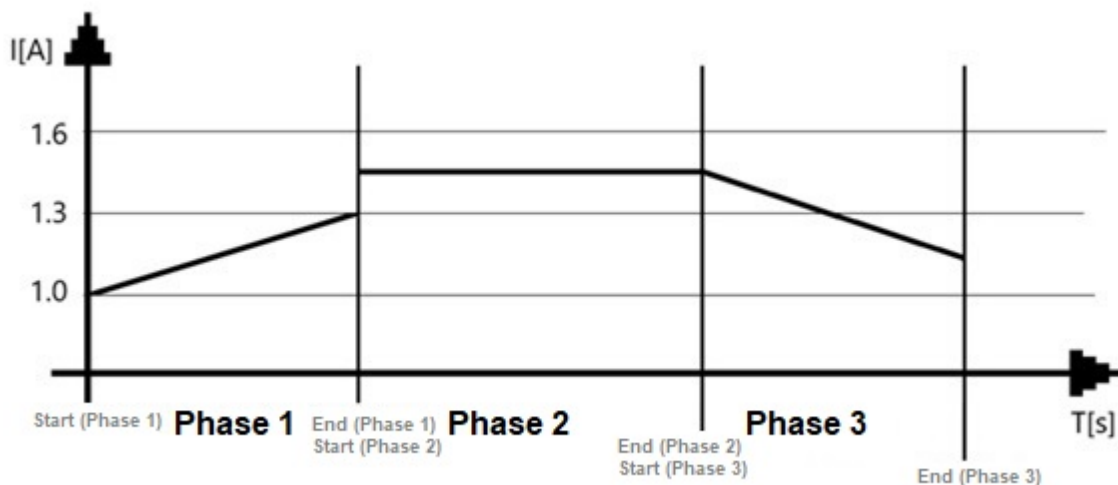
Chart 1 An example of how to switch between the values of the Start I and End I parameters.

* Within each stunning phase (PHASE 1 / PHASE 2 / PHASE 3), there is a smooth transition from the Start value to the End value for each parameter (f / I / U).
* Between the stunning phases (**1 PHASE → 2 PHASE / 2 PHASE → 3 PHASE / 1 PHASE → 3 PHASE**) there is a jump from the End of the preceding phase value to the Start value of the following phase for each parameter (**f / I / U**).

Common parameters for stunning programs - tab OTHER

Switch Mode HV (EnHV) -activation of the selected stunning program:

HV-Wyl - program inactive;
- will be skipped when changing the program with the buttons
   or ;
- HV-Off cannot be set for program 1 (program 1 must be active).

HV-1 - active program
- *measuring voltage (on the open electrodes of the tongs):*
  it occurs when the tongs are connected to the device;
- *resistance measurement and start of the stunning process:*
  automatically when the electrodes are applied to the animal's body.

HV-2 - active program
- *measuring voltage (on the open electrodes of the tongs):*
  appears after pressing the button on the tongs;
  disappears when the button on the tongs is released.
- *resistance measurement and start of the stunning process:*
  after pressing and holding the button on the tongs;
  releasing the button stops the stunning process.

HV-3 - active program
- *measuring voltage (on the open electrodes of the tongs):*
  appears after pressing the button on the tongs;
  disappears when the button on the tongs is released..
- *resistance measurement and start of the stunning process:*
  after pressing the button on the tongs;
  releasing the button does not stop the started stunning process;
  the stunning process will be completed according to the settings.

HV-4- active program
- *measuring voltage (on the open electrodes of the tongs):*
  appears after pressing the button on the tongs;
  disappears when the button on the tongs is released..
- *resistance measurement and start of the stunning process:*

	after pressing the button on the tongs; releasing the button does not stop the started stunning process; pressing the button on the tongs again interrupts the stunning process at any time.

`◄░░░OTHERS░░░:13► :13`
`Preset T [s]:░░99.9◄`
`AMPL░░░░:░░░░░░15`
`Detect.f[Hz]:░░░50↕`
	PRESET T- (SPt) - time counted from the start of the stunning process. After reaching the set value, the end of the stunning process will be signaled (the yellow lamp will light up and a sound signal will sound) - it means that the stunning tongs should be removed from the animal's body.. The parameter is active and visible when the hidden service parameter **PRESET T / Q = Time.**

`◄░░░OTHERS░░░:13► :13`
`Preset Q [C]:░░99.9◄`
`AMPL░░░░:░░░░░░15`
`Detect.f[Hz]:░░░50↕`
	PRESET Q (SPC) - electric charge measured from the start of the stunning process. When the set value is reached, the end of the stunning process will be signaled (the yellow lamp will light up and a sound signal will sound) - this means that the stunning tongs should be removed from the animal's head. The parameter is active and visible when the hidden service parameter **PRESET T / Q = Char.**
	
	* In order to switch between parameters PRESET T and PRESET Q, please contact the manufacturer's service

`◄░░░OTHERS░░░:13► :13`
`BetweenSt[s]:░2.00◄`
`Grn░░░░░:░░░░░░░0`
`Stn░░░░░:░░░░░░25↕`
	BetweenSt - (TOFF) - Time until next stunning.(time delay between the disappearance of the stunning current and the end of the stunning process)

`◄░░░OTHERS░░░:13► :13`
`LmSygn.[A]░:░2.51◄`
`LmAlHt░I[A]:░0.70`
`SwitchModeHV:░HV-4↕`
	LmSyg. - Alarm limit of the current setpoint **[A].**

Date and time parameters - DATE tab	

`◄░░░░DATE░░░░►:13`
`Year░░░░░:░2023◄`
`Month░░░░:░░░░2`
`Day░░░░░░:░░░10↕`
	Year (YEAr) - setting the date (year)

	Month (Mon) - setting the date (month)
	Day (dAY) - setting the date (day)

`◄░░░░DATE░░░░►:13`
`Hour░░░░░:░░░11◄`
`Minute░░░:░░░░2`
`Second░░░:░░░10↕`
	Hour (Hour) - setting time (hour)

	Minute (Min) - setting time (minutes)
	Second (Sec) - setting time (seconds)
SD CARD tab	

`◄SD CARD RD/WR ► :13`
`░░WRITE SETTINGS░◄`
`░░░TO SD CARD ?`
`░░░░░░░░░░░░░░░░↕`
	Write Settings to SD Card

`◄SD CARD RD/WR ► :13`
`░░READ SETTINGS░◄`
`░░FROM SD CARD ?`
`░░░░░░░░░░░░░░░░↕`
	Read Settings From SD Card