

| REGISTRO DE REVISÕES |            |                |
|----------------------|------------|----------------|
| Revisão              | Data       | Descrição      |
| А                    | 25/03/2022 | Versão Inicial |
|                      |            |                |

| RESPONSÁVE | RESPONSÁVEIS |  |                |  |  |  |  |
|------------|--------------|--|----------------|--|--|--|--|
|            | Elaborador   |  | Aprovador      |  |  |  |  |
| Área       | P&D          |  | P&D            |  |  |  |  |
| Data       | 25/03/2022   |  | 25/03/2022     |  |  |  |  |
| Nome       | Walter Avila |  | Rodrigo Santos |  |  |  |  |

## **Objetivo:**

Procedimento para atualização do firmware do microcontrolador do sistema Cardian.

## ATENÇÃO:

Este procedimento se aplica somente a atualização do firmware do equipamento Cardian.

- 1. Conecte o Cardian a uma porta USB disponível no computador ou Notebook e aguarde que o notebook reconheça a conexão.
- 2. Abra o aplicativo Cardian Updater e confirme que a porta COM está sendo informada em Serial Port.

| 쭏 Cardian Updater - 01.01.03 |         |        | - 0    | × |
|------------------------------|---------|--------|--------|---|
| Update Test                  |         |        |        |   |
| Serial Port COM5             | Refresh | ]      |        |   |
| Polygraph                    |         | Select | Update |   |
| Stimulator                   |         | Select | Update |   |
|                              |         |        | 0%     |   |
|                              |         |        |        | 1 |
|                              |         |        |        |   |
|                              |         |        |        |   |
|                              |         |        |        |   |





3. Clique em *Select* e selecione o arquivo de atualização com extensão [xxx].srec

| Cardian Updater - 01.01.03  | _ |        | × |
|---|---|--------|---|
| Update Test   |   |        |   |
| Serial Port COM5   Refresh  |   |        |   |
| Polygraph Drive - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_prolife_v00.99.08.srec Select  | U | lpdate |   |
| Stimulator ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec Select | U | Ipdate |   |
|   |   | 0%     |   |
|   |   |        | 1 |
|   |   |        |   |
|   |   |        |   |
|   |   |        |   |

4. Clique no botão Update para iniciar a atualização

| Serial Port       COM6 <ul> <li>Refresh</li> </ul> Polygraph <li>Drive - ADMCorp/DEPTO P&amp;D/Cardian/Firmware/cardian_prolife_v00.99.08.srec</li> <li>Select</li> <li>Update</li> Stimulator       ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec       Select       Update         Stimulator       ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec       Select       Update         33%       Stimulator       Select       Update       33%         File loaded       New Firmware Version: C1.00.99.08       Started update mode       Current Firmware Version: C1.00.99.08   | Jpdate  | Test   |   |       |   |
|--|---|--|---|-------|---|
| Polygraph       Drive - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_prolife_v00.99.08.srec       Select       Update         Stimulator       ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec       Select       Update         Started update mode<br>Current Firmware Version: C1.00.99.08       Started update mode       Started update mode | Gerial Port   | COM6   Refresh   | _ |       |   |
| Stimulator ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec Select Update 33% File loaded New Firmware Version: C1.00.99.08 Started update mode Current Firmware Version: C1.00.99.08   | olygraph  | Drive - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_prolife_v00.99.08.srec Select | U | pdate |   |
| File loaded<br>New Firmware Version: C1.00.99.08<br>Started update mode<br>Current Firmware Version: C1.00.99.08   | Stimulator  | ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec Select | U | pdate |   |
| File loaded<br>New Firmware Version: C1.00.99.08<br>Started update mode<br>Current Firmware Version: C1.00.99.08   |   |  |   |       |   |
|  |   |  |   | 33%   | 6 |
|  | File loaded<br>New Firm<br>Started up<br>Current Fi | d<br>ware Version: C1.00.99.08<br>pdate mode<br>irmware Version: C1.00.99.08     |   | 33%   | 6 |





5. Aguarde até que o procedimento finalize e a mensagem de êxito tenha sido mostrada.

| 2 Cardian   | Updater - 01.01.03   |                            |                      |        | _  |        | $\times$ |  |
|---|--|----------------------------|----------------------|--------|----|--------|----------|--|
| Update  | Test   |                            |                      |        |    |        |          |  |
| Serial Port   | COM6   | •                          | Refresh              |        |    |        |          |  |
| Polygraph   | Drive - ADMCorp/DEPTO P&D/Ca   | rdian/Firmware/cardian_pro | olife_v00.99.08.srec | Select | Uj | pdate  |          |  |
| Stimulator  | Stimulator ve - ADMCorp/DEPTO P&D/Cardian/Firmware/cardian_st_prolife_v00.99.08.srec                                     |                            |                      |        |    | Update |          |  |
|   |  |                            |                      |        |    | 0%     |          |  |
| File loade<br>New Firm<br>Started u<br>Current F<br>Equipmen<br>Memory v<br>Reseting, | d<br>ware Version: C1.00.99.08<br>pdate mode<br>irmware Version: C1.00.99.08<br>t successfully programmed<br>erified<br> |                            |                      |        |    |        |          |  |

- 6. Feche o CardinUpdater.
- 7. Abra o software do Sistema Cardian, inicie um novo estudo. Verifique se o equipamento exibe os traçados no monitor.