

## Release Note: Firmware of EFOY Pro product series

Date: 04.03.2019

For detailed information, which firmware version is relevant for your EFOY Pro fuel cell, please refer to the Firmware Guide EFOY Pro.

### Overview

- EFOY Pro 800 / 800 Duo / 2400 / 2400 Duo  
FW 17.06 to 17.13  
Next Update: **Firmware 17.15**
- EFOY Pro 600 / 1600:  
Production date after calendar week 12 2011 - FW 11.07 to 11.12  
Available Update: None
- EFOY Pro 2200 / 2200 XT:  
FW 11.04 to 11.12  
Available Update: None
- EFOY Pro 600 / 1200 / 1600:  
Production date before calendar week 12 2011 - FW 9.09 to 9.23  
Available Update: None

| Date,<br>serial.-nr.            | 17.xx Firmware Version   | update required                              | update recommended | not necessary |
|---------------------------------|--|--|--------------------|---------------|
| Week 09, 2019<br>Ser.-nr. 45814 | <b>17.15</b><br>- Improved internal failure management Error "No connection"<br>- Improved internal failure management Error 84<br>- Slight adjustment frost protection mode   |  | ✓                  |               |
| Week 12, 2018<br>Ser.-nr. 43248 | <b>17.13</b><br>- Adjustment charge cycle monitor (Aut / Man / Ext instead of 1 / 2 / 3)<br>- SIO command update:<br>- Values for fill level of each cartridge and the sum of all cartridges (values in "SYSTEM" command available)<br>- "?" command reply now includes LOG and SYSTEM<br>- MODBUS register update:<br>- Registers for fill level of each cartridge and the sum of all cartridges<br>- Improved internal failure management Error 71   |  | ✓                  |               |
| Week 48, 2017<br>ser.-nr. 42212 | <b>17.12</b><br>- New function: Charge cycle monitor<br>- Controls the charge cycle duration and warns if the cycles are too short. Short cycles can be caused by a too small, too old or defective battery.<br>- New symbol: If MODBUS RTU was selected as communication protocol, an "M"-icon appears on the info screen<br>- Implementation of the MT60 tank as fuel cartridge option<br>- Implementation of the EFOY GO! as battery type option<br>- Bug fixing for Cluster Controller operation |  | ✓                  |               |
|                                 | <b>17.11</b><br>Firmware has been withdrawn  | Use Firmware 17.12 instead of Firmware 17.11 |                    |               |
| week 06, 2017<br>ser.-nr. 40207 | <b>17.10</b><br>- Adjustment on update via Modbus regarding baud rate and parity. On request<br>- MODBUS register update:<br>- All registers for SFC commands now available.<br>- Help for MODBUS command implemented<br>- Removed voltage 0.2 V step up after 2 weeks   |  | ✓                  |               |
| week 08, 2016<br>ser.-nr. 37801 | <b>17.09</b><br>- New communication protocol: MODBUS RTU<br>- Extended adjustable parameters for <b>min. switch-off current</b> . Minimal switch off-current set to 2 A (12 V) and 1 A (24 V). Only for EFOY Pro 2400 / 2400 Duo lead battery settings. No changes on factory settings.<br>- Improved internal failure management.<br>- Hybrid mode on display.  |  | ✓                  |               |

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| <p>week 35, 2014<br/>ser.-nr. 34233</p> | <p><b>17.08</b></p> <ul style="list-style-type: none"> <li>- Improved internal failure management.</li> <li>- Improved feeding pump control – new notification regarding fuel connector malfunction.</li> <li>- Extended adjustable parameters for <b>switch off voltage (Hybrid)</b>, no change in default settings.</li> <li>- New LiFePO4 settings for 24 V, automatic 12 V / 24 V detection.</li> <li>- Bug fix – Look icon did not occur when signal on Pin7 and external control active.</li> <li>- Removed: “Firmware out of date” notification.</li> </ul> |  | √ |  |
| <p>week 37, 2013<br/>ser.-nr. 31684</p> | <p><b>17.07</b></p> <ul style="list-style-type: none"> <li>- New settings via operation panel OP2: Altitude and Switch off voltage (Hybrid mode)</li> <li>- New submenu “Batter type” in expert mode of operation panel OP2 with specific switch on and off settings: Lead acid, lead gel, AGM, LiFePO4</li> <li>- New command via terminal program: Battery</li> <li>- Failure 71 now always self-resetting.</li> <li>- Update for new internal peripheral devices.</li> </ul>  |  | √ |  |