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| To : | ASNs | Ref. : | FIASDH-23-002 |
| From : | FIA Safety Department | | |
| Date : | 19 July 2023 | Pages : | 3 |
| Subject : | Accident Data Recorders (ADR) – LED Interpretation | | |

The FIA Safety Department is aware of the complexity surrounding Accident Data Recorders (ADR) and their status lights.

Competitors, scrutineers, and officials need to be aware that, depending on the category, cars can be fitted with:

- an FIA-approved ADR according to FIA Standard 8872-2018, or
- an ADR supplied by a recognised ADR manufacturer (i.e. EM Motorsports and MoTeC).

The ADR needs to be serviced if it presents any behaviour outside of the statuses presented in this document. In such a case, competitors must contact their ADR supplier to service or replace it.

Summary of the status lights of each unit:

- FIA-approved ADRs according to FIA Standard 8872-2018:



EMM ADR with Homologation number
ADR.001.20



MoTeC ADR with Homologation number
ADR.002.20

These ADRs only have one LED that provides two key pieces of information:

Green light: Normal operation – You can race!

Red light: Accident stored – You can race, **but** please contact a technical delegate or your ASN to retrieve the data as soon as possible.

If the ADR can only be connected to power supply (no CAN), the LED might behave differently; please refer to the user manual.

The distinctive feature of the MoTeC ADR2 is that it will only flash **Orange** 2 or 3 times per second if there is a CAN anomaly (depending on the message). If the number of flashes per second differs, please consult the user manual for further guidance.

When the device is turned on, if any accidents are stored, the **red light** will be shown for a duration of **60 seconds**, then it will return to its normal status (**green light**). Sometimes, the ADR may need to charge or do an internal check before triggering either the red or green light. Regardless, the **green light** must come on no more than three minutes after the ADR is turned on.

If the **green light** does not come on, please contact the ADR manufacturer to service it.

- ADR supplied by a recognised ADR manufacturer:

MoTeC ADR:



The ADR has three LEDs and the meaning of each LED is described on the sticker affixed to the ADR. Although the three LEDs provide a lot of information, the two key elements are the following:

- ADR can be used: when the ADR is powered ON, a **red light** should be visible for two seconds and a **green light** should always be on.
- ADR can be used but the FIA or ASN Technical Delegate must be contacted as soon as possible: If a **red light** is ON for more than two seconds or if a **blue light** is ON.
- ADR should not be used: If a **red light** is always ON; contact the ADR supplier.

EM Motorsport MicroADR:



The ADR has one single LED. The two key elements are the following:

- ADR can be used: when the ADR is powered ON, a flashing **Blue light** when the ADR is starting, then a flashing **Purple light** while the ADR is charging and finally a flashing **Red light** when working in normal status.
- ADR can be used but the FIA or ASN Technical Delegate must be contacted as soon as possible: If the status light flashing **red** at a faster than normal frequency.



- iii) ADR should not be used: If the ADR does not flash **red** or is having another behaviour not above mentioned. Please contact the FIA Technical Delegate, ASN or ADR supplier.

Additional information:

FIA-approved ADR according to FIA Standard 8872-2018:

The validity of an ADR expires five years after the year of manufacture. For example, an ADR manufactured on 1.1.2020 will be valid until 31.12.2025; likewise, an ADR manufactured on 31.12.2020 will be valid until 31.12.2025.

ADR supplied by a recognised ADR manufacturer:

The ADRs must be serviced every two years, and ADRs older than five years should not be used.

If an accident occurs in an FIA or ASN event, please contact respectively the FIA or ASN Technical Delegate so that the data can be downloaded from the ADR.

If the ADR has an accident stored, which may have occurred during an event where an FIA or ASN Technical Delegate was not present, please contact the FIA at adr@fia.com so that the accident data can be downloaded from the ADR.

We remain at your disposal for any further information you may require.

The Safety Department