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# TECHNICAL MEMO

## VPRC TECHNICAL MEMO #24-01

To: All IMSA VP Racing Sportscar Challenge Participants  
From: IMSA Competition  
Date: September 13, 2023  
Re: 2024 Series Electronics Update

### **Applies to P3:**

No updates will be required.

### **Applies to GSX:**

IMSA is implementing updates to the required GSX Series Electronics utilized in the IMSA VP Racing SportsCar Challenge (VPRC) effective for the start of the 2024 Season. As stated in the [VPRC Electronics Update Technical Memo \(VPRC TM #23-02\)](#), grandfathered solutions will no longer be permitted and Cars must transition to the 2024 specification. This memo will serve as a guide to the updates in the GSX Class for 2024. The 2023 Technical Regulations by Class will serve as the official requirements. Ordering information can be found in the 2024 Electronics Ordering Link on the [Team Portal](#).

### **Leader Light Panels:**

In the 2023 season, IMSA permitted the use of both the MoTeC and XAP leader light solutions. As stated in [VPRC TM #23-02](#), the XAP system is mandatory for the 2024 Season. MoTeC leader light equipment will no longer be permitted in 2024. The XAP leader light panels are designed as a drop-in solution and intended to improve the robustness of the system while reducing the cost of commonly replaced parts. Voltage and current requirements are consistent with the previous MoTeC leader light system. The XAP leader light system requires a single module controller which is linked to the two panels. The leader light and XAP display will use one harness to interface with the car. It will connect the XAP NTX Display, XAP Panel driver module, X2 Transponder, and driver ID connection. In addition to this, there will be a manufacturer interface for logging car CAN data.

### **Marshalling Display:**

The XAP NTX Marshalling Display provides indication of track condition with scalability to real time marshalling. In addition to track condition, the display can provide basic information to the Driver such as Lap time.

This high-definition display comes in a waterproof aluminum housing and is required in ALL Cars for 2024. For the 2024 season, the XAP NTX Dash is mandatory for track condition notification other Safety Light Kits are no longer permitted. Track Condition Radio (Delphi for GSX and MSE for P3) and antenna kit utilized in 2023 are required for functionality.

The XAP NTX dash will also serve as a scrutineering logger. This will require a logger software unlock, which will need to be performed annually by Creative Motorsports Solutions (CMS). This configuration will require the previously mentioned GS harness from CMS, which will require annual certification. The CMS harness will connect the vehicle CAN interface to the logger which will log the IMSA Scrutineering CAN template as defined by the Manufacturer. This will be required for all GSX Cars.