



**ARES FIRE AND  
SAFETY SYSTEMS LLC**

**POWER SYSTEMS**

# MT 1310 AUXILIARY POWER UNIT CONTROL UNIT



## ERROR LEDS

- |                            |
|----------------------------|
| • Engine High Temperature  |
| • Low Oil Pressure         |
| • Cabin Water Level High   |
| • Air Filter Clogged       |
| • Radiator Water Level Low |
| • Maintenance Cover Open   |

- It is located near APU so that the user can intervene easily in case of maintenance.
- Existing errors on APU can be observed.
- There are buttons to directly intervene when there is a problem during automatic start of APU.
- It is designed as per IP67 Standards. Besides, it enables to reach last 500 detailed logs thanks to diagnostic.
- It is conformant to MIL-STD-810G and MIL-STD-461E/F standards.

## TECHNICAL SPECIFICATIONS

|                                  |                   |
|----------------------------------|-------------------|
| Dimensions (WidthxLengthxHeight) | 140x213x160 ±5 mm |
| Weight                           | 3,1 kg ±0.1       |
| Communication Protocol           | CANBUS J1939      |
| Operating Voltage                | 24 VDC            |

## MT 1310 BUTTON SPECIFICATIONS



|     |                                                                                                                                 |     |                                                                                                             |
|-----|---------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------|
| 1.  | A/C CLUTCH: The air conditioning system cannot be started while the corresponding LED is on.                                    | 12. | WATER IN FUEL FILTER: The corresponding LED lights when the water level in the fuel water filter increases. |
| 2.  | HYDRAULIC SOLENOID: The corresponding LED light comes on when the hydraulic solenoid is activated.                              | 13. | EMERGENCY STOP: When pressed, the emergency button is activated.                                            |
| 3.  | HYDRAULIC FAN PWM : Hydraulic LED speed decreases as the fan speed increases.                                                   | 14. | MANUAL ACTUATOR: The Actuator operates as long as it is kept pressed.                                       |
| 4.  | RADIATOR FAN PWM : The corresponding LED light level decreases while radiator fan speed increases.                              | 15. | MANUAL FUEL PUMP: The Fuel Pump operates as long as it is kept pressed.                                     |
| 5.  | EMERGENCY STOP : The corresponding LED lights if any of the emergency stop buttons are active.                                  | 16. | MANUAL START: The Starter Motor operates as long as it kept pressed.                                        |
| 6.  | HIGH ENGINE COOLANT TEMP : The corresponding LED lights when the engine water temperature is high.                              | 17. | MANUAL GLOW: The Glow operates as long as it kept pressed.                                                  |
| 7.  | LOW OIL PRESSURE: The corresponding LED lights when the engine oil pressure is low.                                             | 18. | ACT: The fuse of Actuator.                                                                                  |
| 8.  | HIGH CABIN WATER LEVEL: The corresponding LED lights when there is no water in the cab. If there is water, it goes out.         | 19. | FUEL PUMP: The fuse of Fuel Pump.                                                                           |
| 9.  | AIR FILTER CLOGGING: The corresponding LED is lights if the air filter is clogged.                                              | 20. | STARTER ENGINE: The fuse of Starter Engine.                                                                 |
| 10. | LOW RADIATOR WATER LEVEL : The corresponding LED lights when there is no water in the radiator. If there is water, it goes out. | 21. | GLOW: The fuse of Glow.                                                                                     |
| 11. | FSS ALARM: The corresponding LED is lights when the event of an alarm in the APU engine compartment.                            | 22. | DIAGNOSTIC: Software installation socket.                                                                   |