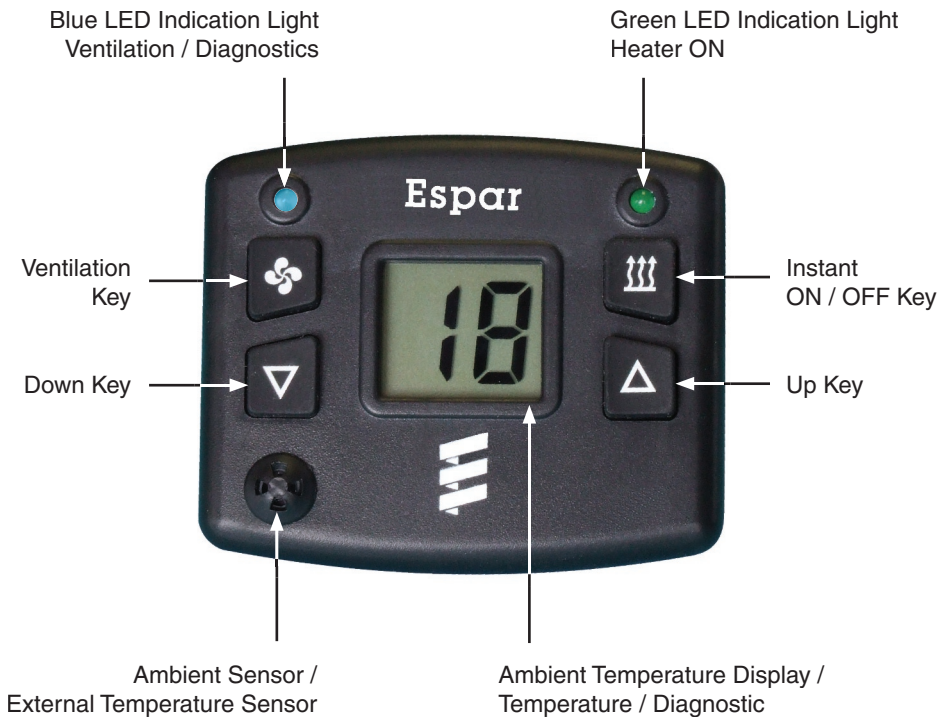


# Digital Modulator

## Operating Instructions Eberspächer Airtronic Heater



### How to Operate the Heater and Digital Modulator




**Part Number: 20 2800 70 10 00**

## **Espar Modulator with Diagnostic Readout Instructions**

### **Introduction**

The 801 Modulator offers manual control and digital temperature adjustment of your Airtronic heater.


### **Switching on the Heater (Manually)**

Press the  key and 'ON' will briefly appear on the display. The heater will commence its start up cycle.

Also, the green LED 'Heater ON' indication light will illuminate and the display will now revert to show ambient temperature (°F).



The ambient display temperature range is from 16°F to 99°F.



### **Switching off the Heater (Manually)**

The heater may be switched off at any time by pressing the  key.

The heater cooling down cycle of 3 minutes will then be initiated. Wait for blower fan to stop before isolating batteries (if isolator is fitted).

### **Adjusting the Temperature**



Pressing the  and  keys will alter the desired temperature shown on the display. This level may be adjusted at any time and will remain in the modulator memory when the heater is not in operation.

When the  and  keys are released the display will revert back to show ambient temperature.

The Modulator temperature adjustment range is from 40°F to 90°F.

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## Diagnostic Readout

With the heater switched on, press and hold  key until the display shows 'dA'. The blue LED will briefly illuminate. Release key and display then shows the current fault code. Each press of the  key will scroll through the last 5 previously stored fault codes.

### Typical fault codes:


- 10 = Over voltage - Check battery charging system.
- 11 = Under voltage - Check battery voltage.
- 12 = Overheating - Check air ducts for obstruction.
- 52 = Safety time exceeded - Check fuel supply.


For other fault codes consult your local Espar dealer.

Press  and  keys together to erase stored fault codes and display shows 'EE'. To exit diagnostic mode, press and release the  key.

If stored fault codes cannot be erased consult your local Espar dealer.

## Ventilation

To activate Ventilation Mode, press and hold the  key until the blue LED illuminates and display shows active rotating two digits.

To stop ventilation, press  key briefly. Blue LED switches off and display shows ambient temperature.

## Technical Specification

<b>Dimensions (mm)</b>	65(w) x 55(h) x 17(d)
<b>Weight</b>	60 grams
<b>Temperature Range</b>	40°F to 90°F
<b>Heater Switched Output</b>	1 amp
<b>Voltage</b>	12 / 24 volt D.C.
<b>Ambient Temperature Range (Operating)</b>	-40°F to +176°F
<b>Cable Lead</b>	1000mm long with pre-crimped Amp Junior Tabs. Mating terminals / housings supplied loose.

## Important Information

- Always switch off the heater when the fuel tank is being filled.
- Never operate the heater in confined spaces, i.e. garages.
- The maintenance flap must not be opened during operation.
- Failure to comply with the instruction or operation of the heater in confined spaces (i.e. garages) harbours the risk of poisoning.
- The heater may only be used for the purpose specified by the manufacturer and in compliance with the operating instructions supplied with every heater.
- Switch off heater and wait for blower fan to stop before isolating batteries.
- When the heater or the heating system is damaged, an authorised Eberspächer workshop must be called in to repair the damage using genuine spare parts.
- When carrying out electric welding work on the vehicle, disconnect the positive post cable at the battery terminals on the battery and ground to negative.
- Do not place aerosol cans, alcohol, inflammable liquids or inflammable materials near the heater exhaust or hot air outlet.
- Defect fuses must only be replaced by fuses with the prescribed rating.
- Switch on the heater briefly (about 10 minutes) every month. This prevents the fuel pump and burner motor from seizing up.



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