

# 801 Series Digital Modulator

## Operating Instructions

### Eberspächer Airtronic Heater



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## 801 Series Digital Modulator

### Part Numbers

<b>801 10 001</b>	Airtronic D2 / D4 / D5 heaters only. 1 hour run time.
<b>801 10 101</b>	As 001 with 6-way housing fitted.
<b>801 10 003</b>	Airtronic D2 / D4 / D5 heaters only.
<b>801 10 103</b>	As 003 with 6-way housing fitted.

## 801 Series Digital Modulator Operating Instructions Eberspächer Airtronic Heater

### How to Operate the Heater and 801 Series Modulator



BUTLER TECHNIK

**Part Number: 801 10 001 / 801 10 101  
Modulator with Diagnostic Readout  
Instructions (1 hour run)**

**Part Number: 801 10 003 / 801 10 103  
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 (°C).

**Note: The 801 10 001 / 801 10 101 version will only run for a maximum period of 1 hour and switch off.**



The ambient display temperature range is from -9°C to +59°C.



### 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  or  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  or  keys are released the display will revert back to show ambient temperature.

The Modulator temperature adjustment range is from 5°C to 32°C.




## Diagnostic Readout

With the heater switched on, press and hold  key until the display shows 'dA'. The blue LED will briefly illuminate. Release the key. After a short time the LED flickers momentarily during diagnostic data transfer then goes off. The display shows FO followed by its fault code then automatically scrolls through any previously stored fault codes, up to a maximum of 5.

### 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 Eberspächer 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 Eberspächer dealer.

## Ventilation

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

**Note: The 801 10 001 / 801 10 101 version will only run for a maximum period of 1 hour and switch off.**

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

## Technical Specification

Dimensions (mm)	65(w) x 55(h) x 17(d)
Weight	60 grams
Temperature Range	5°C to 32°C
Heater Switched Output	1 amp
Voltage	12 / 24 volt D.C.
Ambient Temperature Range (Operating)	-30°C to +85°C
Cable Lead	250mm 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 heater 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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## EU Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We Eberspächer (UK) Ltd. of  
Unit 10, Headlands Business Park, Salisbury Road, Ringwood, Hampshire  
hereby declare that

### 801 Series Modulator Controller

**Product Type: Diagnostic Modulator**

conforms with the prime safety requirements stipulated in the Directives of the EU Council for harmonisation of the legal regulation of the member states with regard to electromagnetic compatibility.

This declaration applies to all 801 Series Modulator units produced according to the production drawing and control plans which are an integral part of this declaration.

The following Directives / Standards have been used to assess the product with regard to electromagnetic compatibility conformity:

**Applicable Directive:**

EMC Directive 2004/108/EC

Automotive Directive 2004/104/EC


**Standards Applied:**

EN61000-6-3:2007 (emissions)

EN61000-6-1:2007 (immunity)

ISO7637-2:2004

I hereby declare that the equipment named above has been tested and found to comply with the relevant sections of the above referred specification. The unit complies with all Essential Requirements of the Directives.

  
\_\_\_\_\_  
Signed by  
  
\_\_\_\_\_  
Russell Brown  
Name

\_\_\_\_\_  
Ringwood, Hampshire

\_\_\_\_\_  
19th August 2008

\_\_\_\_\_  
Place and Date of Issue

\_\_\_\_\_  
Managing Director

\_\_\_\_\_  
Title



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