

ACF Basic Controller

USER MANUAL



SPECIFICATIONS

Voltage	24 Vdc
Pressure Range	0 to 300 Pa
Hydrocarbon Sensor	5 ppm +/- 5%
Acoustic Alarm	yes
Display	4 characters
Filter Detection	yes
Saturated Filter Detection	yes



Clean air for
a better world

OPERATION



When you start your vehicle, the overpressure filter unit starts automatically.



The overpressure filter unit begins at a lower speed and accelerates until the pre-set overpressure value is reached. The default setting is 120 Pa, but it can be adjusted via the controller between 120 Pa (0.017 psi) and 300 Pa (0.043 psi).

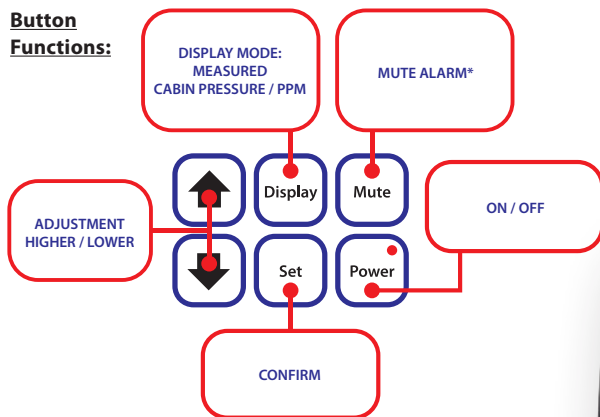


The CO₂ measurement starts after a period of two minutes, after which the correct value will appear on the display. During this period, the PPM value will count down on the display. The legal alarm threshold for hydrocarbons is set to 5 PPM. If the overpressure value does not meet the lower limit of 120 Pa or exceeds the upper limit of 300 Pa, or if the pollution exceeds the set value, an alarm will sound. In addition to an acoustic signal, the alarm is also visually displayed.



The unit also checks the presence of filters. If they are missing, the display will show "FIL," and the overpressure filter unit will not start.

Button Functions:



Features of the controller:

- Setting the pressure value
- Dust detection
- Filter detection
- Hydrocarbon detection

Setting the Overpressure Value:

1. Press the "DISPLAY" button to set the unit's display to the pressure value
2. Use the "UP-DOWN" buttons to set the desired pressure value
3. Confirm the value by pressing the "SET" button
4. The basic controller will now operate according to the set values



Text on the display:



The measured pressure is displayed as P in Pascal. The alarm is activated when the pressure in the cabin drops below 120 Pa or exceeds 300 Pa; the text on the display will start flashing, and an acoustic signal will sound.

If the pressure does not reach the lower limit of 120 Pa, it could indicate that the dust filter is clogged or the cabin seals are no longer airtight.

The measured amount of hydrocarbons is displayed as HC in PPM. An alarm will sound when this value exceeds 5 PPM; the display will flash and show the current HC value.

When the HC value on the display rises from 0 to 5 PPM, this could indicate a clogged carbon filter. If the value exceeds 5 PPM, the filters need to be replaced.



If no carbon filter is installed in the unit, it may occur that a high concentration of hydrocarbons is measured in the cabin due to exhaust gases. It is recommended to always use a carbon filter.



If "FIL" appears on the display, it means that no filters are present in the unit or that the filters are incorrectly installed. The unit contains two proximity sensors to detect the filter. When using dust filters made of materials other than steel, the sensors may not detect the filters.

NOTE:

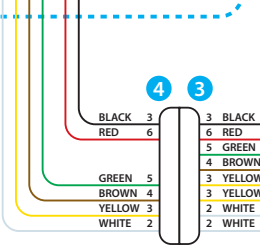
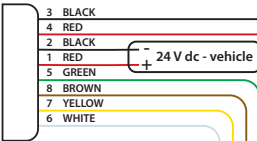
- IN CASE OF ALARM SOUND WARNING, USE THE MUTE BUTTON**
- ALSO USE THE MUTE BUTTON WHEN RESTARTING THE ACF CONTROLLER**

ELECTRISCH SCHEMA

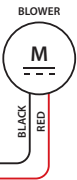
CONTROLLER
ACF BASIC 24 V dc



WEIPU 9 PINS



OVERPRESSURE FILTER SYSTEM



SENSOR LOWER
FILTER DETECTION

SENSOR UPPER
FILTER DETECTION