

Instructions for the use of the 30.2011

This digital thermometer is an electronic precision instrument for the measurement of internal and external temperatures specially adapted for installation in motor vehicles. The instrument also warns of ground frost, has an illuminated display if connected to a 12V system and shows the time.

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|-----------------------------|----------------------------------|---------------|------------------------------------|
| Measurement range Internal: | 0°C + 499°C (32°F +122°F) | External: | -40°C + 80°C (-40°F +178°F) |
| Scale: | 0.5°C (0.5°F) | Battery: | 1.5 V button cell |
| Max. Error: | 1°C (18°F) | Cable length: | approx 3 m |

Caution: used batteries should be disposed of separately

Installation

1. Find a suitable space visible from the driving seat where the thermometer can be installed either with its adjustable holder or using the enclosed Velcro fastening. Ideally, this should be close to a cable bushing and if you want to connect the thermometer to the vehicle electric system there must be a connection available (see 4.2)
2. Lead the external sensor through a cable bushing (e.g. the radio antenna bushing) and through the engine space to the front bumper. Attach the self-adhesive sensor to the rear of the front bumper in a protected position that you have first cleaned thoroughly of all dirt, rust and grease. Secure the wire in the engine space to the wall or another cable with clamps or insulating tape to prevent it dangling free.
3. Before using the thermometer check proper, secure and safe siting of the external sensor wire in the battery/cable plug receptacle of the thermometer
4. Connect to currents as following:
 - 4.1 Operation with enclosed round cell
Insert battery in battery/cable plug receptacle and close cover. Make sure the cable to the external sensor is properly sited and connected.
 - 4.2 Operation on 12V circuit (vehicle battery)
 - a. Remove the round cell from the battery receptacle
 - b. Attach the enclosed wiring connector to the 3-pole 12V connection in the battery plug receptacle
 - c. Crimp the enclosed cable lugs on the uninsulated cable ends
 - d. Connect red cable to vehicle battery (KL 30)
 - e. Connect grey cable to 12V light connection (KL58)

- f. Connect brown cable to earth (KL31)

5. Insert thermometer in holder or secure it with Velcro fastener

Use:

1. Lower display row is external temperature
2. Upper display row can be toggled between time and internal temperature by pushing the red button
3. Setting time
 - a. The SET mode is the default mode when current is first applied to the thermometer. There after, it can be set by lifting the right-hand cover on the front to the right end pressing the MODE button
 - b. The minute display will now blink
 - c. Use the SET button to adjust minutes
 - d. Press the MODE button again to make the hours display blink
 - e. Use the SET button again to adjust the hours
 - f. Confirm your input by pressing the MODE button once again
 - g. Close the cover. The thermometer is now ready for use
4. The display is automatically lit if the thermometer is connected to the vehicle battery
5. If the external temperature drops below 3 C° the thermometer will display a blinking snowflake as a warning of ground frost.

Troubleshooting

Insert new battery and check the lugs are correctly installed before sending the thermometer to us for repair.

Improper use and/or attempts to open the thermometer invalidate the guarantee.