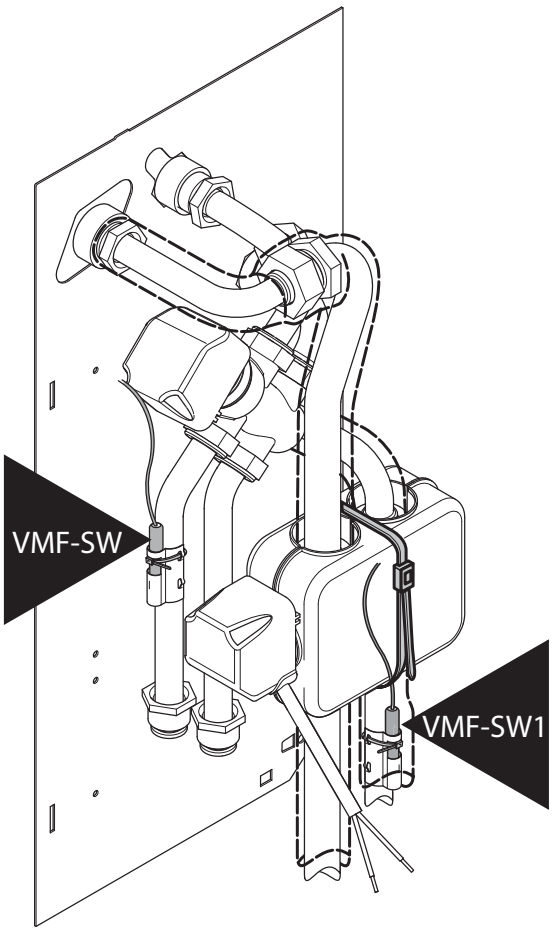
AERMEC
air conditioning

MANUALE D'INSTALLAZIONE
INSTALLATION MANUAL
MANUEL D'INSTALLATION
INSTALLATIONSANLEITUNG
MANUAL DE INSTALACIÓN

Sonda ausiliaria della temperatura dell'acqua negli impianti a 4 tubi
Auxiliary water temperature probe in the 4-pipe systems
Sonde auxiliaire de la température de l'eau dans les installations à 4 tuyaux
Zusätzliche Wassertemperatursonde in 4-Rohr-Anlagen
Sonda auxiliar de temperatura del agua en instalaciones de 4 tubos

Variable Multi Flow
VMF

VMF-SW1



CE

AERMEC
COMPANY QUALITY SYSTEM
ICIM
ISO 9001:2000 - Cert. n° 0128/5
CISQ IQNet
AERMEC S.P.A.

6209020_00

IVMFSW1IJ1007 - 6209020_00

Congratulations on your purchase of the Aermec VMF-SW1 accessory.
Realised with top-quality materials, in full respect of Safety Regulations.

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WARNING: The VMF-SW1 probes are accessories that must be connected to the circuit boards applied to the fan coils. It is recommended to consult the fan coil manuals and the boards (whenever these are supplied as an accessory). Apply all of the precautions indicated for the circuit boards.

WARNING: the fan coil is connected to the power supply and a hydraulic circuit. Operations performed by persons without the required technical skills can lead to personal injury to the operator or damage to the unit and surrounding environment.

ATTENTION: The components sensitive to static electricity can be destroyed by discharges that are well below the human perception threshold. These voltages form when a component or an electric contact of a unit is touched without first having discharged the accumulated static electricity from the body. The damage caused due to overvoltage cannot be identified immediately, but appears after a certain period of functioning.

ACCUMULATION OF STATIC ELECTRICITY

Any one not connected in a conductive way with the electronic potential of the surrounding environment can accumulate electrostatic charges.

BASIC PROTECTIONS AGAINST ELECTROSTATIC DISCHARGES

Quality of the earth connection

When operating with units sensitive to electrostatic electricity, make sure that the persons, the work place and the casings on the unit are connected to earth correctly. In this way, the formation of electrostatic charges is prevented.

Avoid direct contact

Only touch the element exposed to electrostatic dangers when it is absolutely indispensable (e.g.: for maintenance).

Touch the element without coming into contact with the contact feet or the wire guides. Following this set-up, the electrostatic discharge energy cannot reach or damage the sensitive parts.

If measurements are made on the unit, before performing the operations it is necessary to discharge the electrostatic charges from the body. To do this, it is sufficient to touch a metal object connected to earth. Only use earthed measuring equipment.

FUNCTIONING ANOMALIES

In the case of functioning anomalies, remove the voltage from the unit and then re-apply it and re-start the appliance. If the problem persists, call the Area After-sales Service immediately.

DO NOT TUG ON THE ELECTRIC CABLES

It is very dangerous to pull, step on, crush or fix the electric cables using nails or staples.

The damaged cable can cause short circuits and injury to persons.

ATTENTION: Do not allow children or unassisted disabled persons to use the appliance without relevant surveillance; also remember that the appliance is not a game for children.

TECHNICAL FEATURES	
Connection	Connection to the **SW1** connector of the AERMEC VMF range boards
Sensor assembly	Upstream from the valve
Sensor features	R25°C=10kohm
Temperature of use:	-25°C…+100°C
Cable length	2500mm (+/- 10mm)

The probe satisfies all technical requisites recalled by the IEC 60539-1:2002 Standard

DESCRIPTION

VMF-SW1

Auxiliary probe accessory for detection of the water temperature in the cooling circuit of the 4-pipe systems with fan coils equipped with AERMEC VMF-E1 and/or VMF-E18 range electronic thermostat.

The VMF-SW1 accessory is the auxiliary probe for detection of the temperature of the water in 4-pipe systems.

Use the VMF-SW1 probe whenever the temperature of the water in the cooling circuit must be detected, install upstream from the valve (accessory).

The VMF-SW1 accessory can be applied to the fan coils set-up (see compatibility in the fan coil documentation) and/or supplied with a VMF range electronic thermostat accessory (e.g.: VMF-E1; VMF-E18; etc.).

The VMF-SW1 kit is composed of:

- n.1 water temperature probe with cable measuring 2500 mm and connector.
- n.1 Fairlead D.18mm.
- n.2 Self-locking strap L.98mm.
- n.1 Packaging.
- n.1 Instructions regarding installation.

Installation:

- Position the bulb on the flow pipe upstream from the cold water circuit valve.
- Fix the probe bulb using the straps supplied.
- Apply the fairlead to the hole on the side of the fan coil, from the valve side.
- Take the probe connector to the thermostat board, passing through the fairleads on the sides. Place the cable in a way that it cannot be cut, crushed, ripped, ruined or damaged in any way. The installer is responsible for fixing it suitably.
- Connect the water temperature probe connector to the connector (**SW1**) on the board.
- Configure the thermostat circuit board for functioning with water probe, set the Dip-switches on the circuit board (consult the thermostat manual).

Functionality:

- The functionalities of the unit with water temperature probe are described in the fan coil manuals or in the thermostat accessory manuals.
- In the event of breakdown, do not try to repair the probe but contact the after-sales Centre.

DIP-SWITCH SETTING

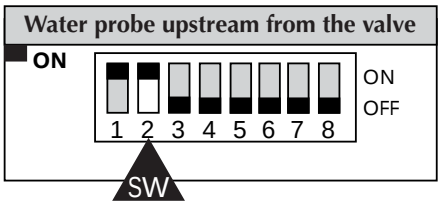
The probe must be enabled from the Dip-Switch that is on the circuit board.

Operation to be carried out in the installation phase by specialised staff.

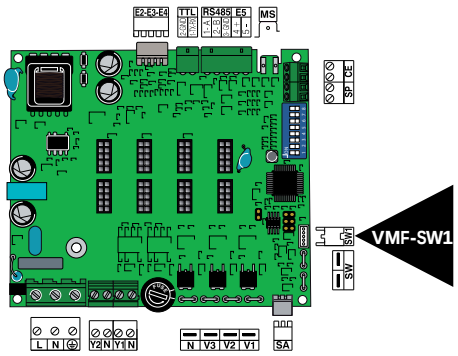
Dip Switch Setting:

- Remove voltage to the unit.
- The Dip-Switches are easy to reach on the thermostat box side; do not open the box.
- The Dip-Switch 2 must be set at ON.

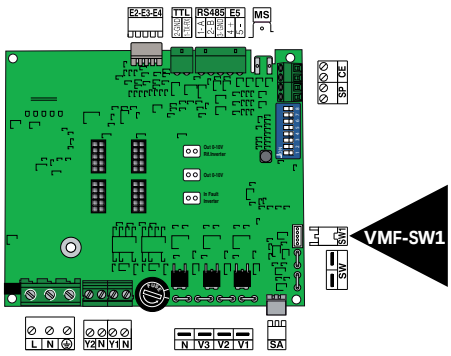
EXAMPLE:



CONNECTION TO THE THERMOSTAT CIRCUIT BOARDS



VMF-E1



VMF-E18

The diagrams represent the thermostat circuit boards. Probe connection and Dip-Switch setting do not require the protective box to be opened. The connectors and the Dip-Switches can be easily reached on the sides of the thermostat box.

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