The external probe connected to the boiler electrical system allows to automatically decrease or increase the max. flow temperature when the external temperature increases or decreases, in order to adjust the heat supplied to the system according to the change in external temperature.

The external probe always acts when it is connected independently from the presence of the Immergas heat adjustment kit.

**OPERATION.**

Depending on the external temperature and the settings on the boiler, it latter adjusts the flow temperature depending on the external temperature (see boiler instruction book).

**GENERAL FEATURES.**

- The temperature probe is specifically realized for assembly in external environments.
- IP66 protection rating against atmospheric agents.
- Plastic container.
- Easy wall-mounting (horizontal or vertical) using plugs.
- PTC type probe with R 25 °C of 1 k ohm

**ELECTRIC CONNECTION.**

- The boiler is already prepared for the electric connection, which takes place using two wires connected to the relevant clamps (see wiring diagram in boiler instruction book).
- Maximum length of the cables 50 metres (boiler-external probe distance).
- Cables section with horizontal application between 0.5 and 1.5 mm². The cable must have a protective sheath with diameter between Ø 5 - 7 mm
- Section of cables with vertical application between 0.5 and 1.5 mm². The protective sheath is not indispensable in this application.

**GRAFICO FUNZIONAMENTO SONDA**

**PROBE FUNCTIONING GRAPHICS.**

![Graph showing the relationship between temperature and resistance](Fig. 1)
ISTRUZIONE PER L’INSTALLATORE.
N.B.: questa sonda esterna di temperatura è adatta alla sola installazione su caldaie Immergas.
- La sonda esterna deve essere installata sulla parete a Nord (sempre se è possibile) o Nord-Ovest dell’edificio, ad una altezza da terra di almeno 3 metri, in una posizione non esposta a correnti d’aria improvvisi, al riparo dall’azione dei raggi solari o di altre fonti di calore e al riparo da urti ed eventuali manomissioni.
- Nella figure 2 e 3 sono indicati gli interassi di foratura in base al tipo di installazione.
- Far passare i cavi di collegamento attraverso il passacavo in gomma posto sul fondo della sonda e fissarla al muro mediante i due tasselli (part. D).
- Fermare i cavi di collegamento alla schedina di controllo mediante la fascetta in dotazione (Part. E).
- Effettuare il collegamento elettrico dei due cavi alla morsettiera della sonda.

MONTAGGIO VERTICALE
VERTICAL ASSEMBLY

MONTAGGIO ORIZZONTALE
HORIZONTAL ASSEMBLY

INSTRUCTIONS FOR THE INSTALLER.
N.B.: this external temperature probe is suitable for installation on Immergas boilers only.
- The external probe must be installed on the North or North-West wall of the building (if possible) at a height of at least 3 metres from the ground. It must be in a position that is not exposed to sudden air currents, protected from the sun’s rays or other heat sources and also protected from blows and tampering.
- Figures 2 and 3 indicate the distance between the holes on the basis of the type of installation.
- Pass the connection cables through the rubber whipping on the bottom of the probe and fix it to the wall using the plugs (part. D).
- Block the connection cables to the small control board using the supplied straps (Part. E).
- Connect the two electric cables to the probe terminal board.