

INTRODUCTION

Zennio's temperature probes are accessories that can be connected to the analog/digital inputs of the following devices: **QUAD (ZN1IO-4IAD)**, **ACTinBOX CLASSIC HYBRID (ZN1IO-AB46A)** and **ZAS (ZN1VI-TPZAS)** when these entries are configured as temperature probes.

They are used to measure the temperature of the surrounding air, thus enabling to know the temperature of a room, and to apply this value to different processes, such as the thermostatic regulation of a room.

The temperature probes offered by Zennio are NTC and these are the models:

<p>Epoxy probe ZN1AC-NTC68E</p>  <p>$\phi_{\text{máx}} = 5 \text{ mm}$ $R_{25^{\circ}\text{C}} = 6.8 \text{ k}\Omega$</p>	<p>Epoxy probe stiff cable ZN1AC-NTC68F</p>  <p>$\phi_{\text{máx}} = 5 \text{ mm}$ $R_{25^{\circ}\text{C}} = 6.8 \text{ k}\Omega$</p>	<p>Steel probe ZN1AC-NTC68S</p>  <p>$\phi_{\text{máx}} = 6 \text{ mm}$ $R_{25^{\circ}\text{C}} = 6.8 \text{ k}\Omega$</p>
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The Epoxy probe (**ZN1AC-NTC68E**) is useful at normal conditions of working and installation. A cable of 1.5m cable is included in the product packaging.

The Epoxy probe stiff cable (**ZN1AC-NTC68F**) is useful for more complex installations, like canalizations (for example, for radiant floor protection), making easier its installation without any kind of guide cable. A cable of 2.3m is included in the product packaging.

The Stainless Steel probe (**ZN1AC-NTC68S**) is ideal to measure fluids within ducts or pipes, allowing to measure temperature ranges up to 125 degrees (like an application of regulation or control of solar thermal energy). A cable of 1.5m cable is included in the product packaging.

OPERATING TEMPERATURE

The minimum and maximum operating temperatures for each model are shown in the table below.

PROBE MODEL	MINIMUM TEMPERATURE (°C)	MAXIMUM TEMPERATURE (°C)	MAXIMUM LENGTH (m)
ZN1AC-NTC68S	-30	125	30
ZN1AC-NTC68E	-30	90	30
ZN1AC-NTC68F	-30	90	30