

QUICK GUIDE

HEATED TUBES



DESCRIPTION

In this quick start guide, we will explain how to connect the cables of the heated tubes to a controller.


ATTENTION!

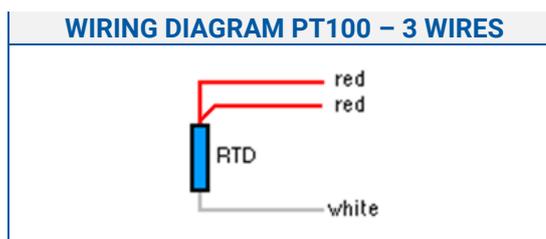
A maintenance technician is required to carry out the process. If you are not careful, you risk causing damage to the control unit, for which DAV Tech is not responsible.

Heated pipes are used to keep the fluid flowing through them at a constant temperature, typically warmer than room temperature. As a rule, heated pipes never exceed 40°C, although they may use much higher temperature ranges (please notify the technical department for fluids at temperatures above 50°C). Here are some technical notes regarding heated tubes:

SPECIFICATIONS		
Description	UdM	Values
Electrical Characteristics		
Single-phase supply voltage	V	110 ÷ 230 ± 10%
Absorbed current	A	2
Thermal Characteristics		
Working temperature range	°C	30 ÷ 100
Mechanical characteristics		
Tube diameter range	mm	5 ÷ 28.5
Materials Used	\	AISI 304
	\	PTFE
Pneumatic characteristics		
Working pressure range	bar	265 ÷ 40 ⁽¹⁾
Safety coefficient with respect to burst	\	4 to 1

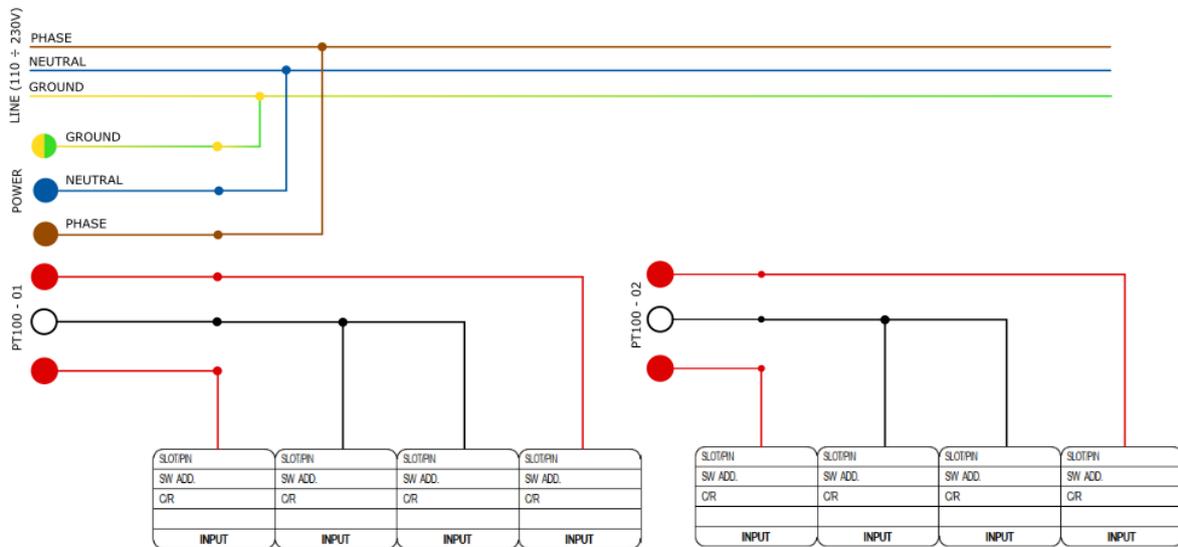
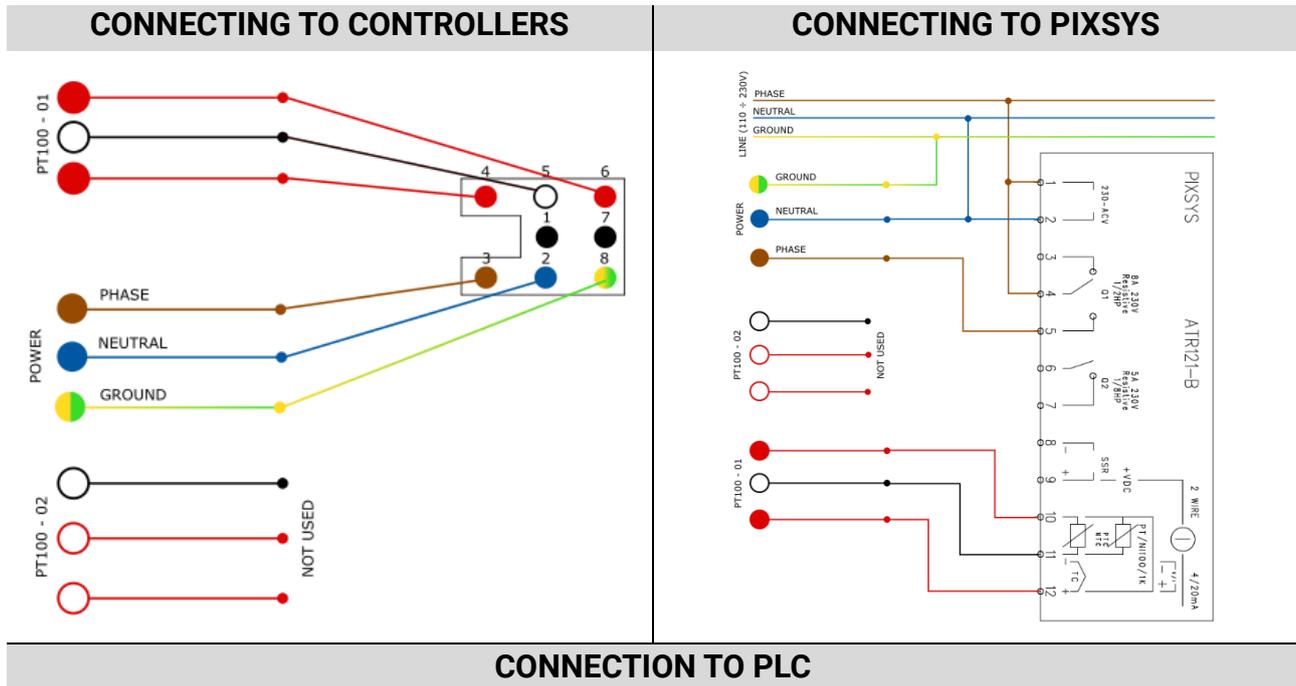
⁽¹⁾ The maximum working pressure decreases as the outer diameter increases.

CONNECTION FEATURES	
Cable color	Utilization
BROWN	Resistance Phase
BLUE	Neutral Resistance
YELLOW/GREEN	Grounding
WHITE (x2)	PT100 Ground
RED (x4)	Phase & Compensation PT 100


ATTENTION!

You are asked to work in the absence of voltage when wiring

WIRING



APPLICATION NOTES:

1. There is no difference between PT100-01 and PT100-02, you can use either of them independently;
2. There is no difference between the two red cables, just connect them in the right places, as indicated;
3. For PLC connection, you need to see the schematic of the project to understand where they need to be connected precisely. If it is an external wiring diagram, ask the manufacturer for more information.
4. The PT100-02 is used as a check, to see if the PT100-01 probe is still working properly. In the case of the controller and PIXSYS, the probe is not used (remains disconnected), while with the PLC it is used. In cases where it is not used, it is advisable to insulate it properly.



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