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M5, X5, and Q5 CONTROLLERS

Calibration

The instrument calibration is based on a series of steps. Each step performs the calibration of a particular input or output. It must be done when only strictly necessary and using reference instruments with an high accuracy. Then the instrument must remain switched on at the environmental conditions for a certain time (min. 1 hour).

Please set the C.PaS configuraton password (page 48 User manual)

Calibration by keyboard

Starting from the operation mode, press both the "↵"(enter) and "⏏"(menu access) keys for a couple of sec. Then appears "C.PaS" (password). Please set value and then the calibration procedure is available.

Then appears "C.TC" (T/C calibration) on lower display while on the upper display appears a variable value. Generate a signal as per the below table and press the "∨" or "∧" keys to memorise the new calibration value.

Wait until the displayed value remains stable.

When the calibration is correct press the "↵" key to go to the next step. It is possible do not modify the displayed values avoiding the "∨" or "∧" keys pressure.

After "C.S. mA", press the "↵" key to come back to the Normal Operation.

Step	Function	Action
C.tc.	TC calibration	Apply 50.000mV to the input – set with ∨ or ∧ keys
C.Pt.	RTD calibration	Apply 313.594 Ω to the input – set with ∨ or ∧ keys
C.mV.	mV calibration	Apply 300 mV to the input – set with ∨ or ∧ keys
C.Vol	Volts Calibration	Apply 10 V to the input – set with ∨ or ∧ keys
C.mA	mA calibration	Apply 20mA to the input – set with ∨ or ∧ keys
C.S. V	Remote Setpoint Volts calibration	Apply 10 V to the input – set with ∨ or ∧ keys
C.S. mA	Remote Setpoint mA calibration	Apply 20mA to the input – set with ∨ or ∧ keys