

neoplas control

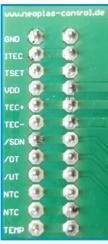
solutions for your operations in gases and plasmas



Q-MACS TC-TYP1

The Q-MACS TC Type1 is ultra compact analog OEM temperature controller, with a fixed PID Loop. It will be delivered with a PID Loop that works in most conditions, or with user defined parameters. A PID Loop definition with user equipment is also posible. The Q-MACS TC Type1 is a highly compact PID controller designed specifically for small Peltier Elements, with up to 5V/3A. The Module provides monitoring signals for the TEC current and temperature as a funktion of a voltage from 0V to 5V. As a safety funktion an over- and undertemperature signal can be evaluated e.g. by the Shutdown funktion. The operation, with only one operating voltage, ensures easy use.







General

description compact analog temperature

controller

dimensions 35 mm x 47 mm x 26,5 mm

 $(L \times D \times H)$

thermal management ai

temperatur stability up to 0,001 K

Terminal

type of terminal

Phoenix Contact FFKDSA1/H-2,54-12

Type of thermistor

thermistor NTC witch R25=10k

Electrical parameters

supply voltage +5V Vdd to GND

temperature protection /OT, /UT +/-20mV

(typ. +/-1,5 K to temp.

setpoint)

monitor Itec Vtec=1,5V+(0,068Ohm*Itec)*8

monitor Temperature Vtemp=Vntc

Material

mountig/cooling plates

anodized aluminium

electronic base

FR4