

neoplas control

solutions for your operations in gases and plasmas



Q-MACS Process MC

The Q-MACS Process is a compact high performance, all inclusive measurement system for up to four laser sources in TO3-8 housing. The system includes four laserdrivers with associaeted TEC controller, as well as a detector. All optical components for guiding and shaping the laser beams are already integrated.

The control as well as the measured value display is carried out via a special, easy-to-use, intuitive software

The beam coupling and decoupling takes place via a KF40 flange as standard. The beam can be returned by a retroreflector or a long-path cell. Both versions are provided by us and are optimally matched to the Q-MACS Process MC due to their design. Further customer requests can be realized.

The properties of the Q-MACS Process MC make it easy for the customer to implement a wide range of process monitoring in the smallest of spaces.





general

description

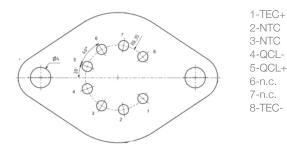
dimensions

weight supply voltage thermal management remote control interface data acquisition

up to four channel laser spectrometer with integrated data aquisition 330 mm x 170 mm x 120 mm $(L \times H \times D)$ [without flange] 24 VDC @ max 150 W network (RJ-45), UART or SPI 125 MS/s with 62 MHz bandwidth

laser connector

TO3-8 socket



bottom view

current driver

number of drivers cw current compliance voltage

channel bandwidth 500 kHz sine wave 100 kHz square wave

temperature controller

maximum voltage maximum current temperature sensor temperature range

≤4.3 V ±3 A

NTC, 10 kOhm @ 25 °C -25 °C - 40 °C

up to 500 mA per channel

max. 22 V (configurable) per

operating and storage conditions

operating temperature operating humidity storage temperature storage humidity

5 °C - 40 °C 15 % - 75 % (rel.) 5 °C - 70 °C 10 % - 80 % (rel.)