



# QMIX MICRO REACTION SYSTEM

## Analysis and Synthesis System

### Modules

#### Q +

Besides a heatable reactor zone for different mixers the heating module contains an additional reaction loop (heatable) for flexible tubing.



### Data



Dimensions (L x W x H).....	310 x 75 x 89 mm
Chip holder area (L x H) .....	40 x 40 mm
Standard Chip format (L x H).....	16 x 12,5 mm
Chip material.....	glass, silicon, ceramics
Reaction loop (length) .....	~1 m
Reaction loop (material) .....	PTFE, PEEK, SS
Temp. range.....	+20...200 °C

#### Q -

The heart of this module is a controlled thermoelectric peltier element for a precise cooling and heating of the reactor zone. To get the maximum cooling performance it's possible to connect the module to an external cooling circuit.



Dimensions (L x W x H).....	310 x 98 x 91 mm
Chip holder area (L x H) .....	40 x 40 mm
Standard Chip format (L x H).....	16 x 12,5 mm
Chip material.....	glass, silicon, ceramics
Coolant ports .....	1 inlet, 1 outlet
Temp. range (with cooling medium) .....	(-25) -10 ...+100 °C

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#### λ

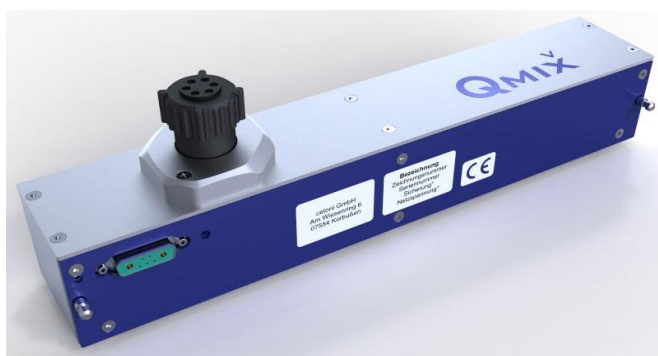
The spectrometer module includes a fast and precise online spectrometer for VIS and NIR applications (350 – 1100 nm). A highlight is the adjustable measurement-channel length for sensitive measurements.



Dimensions (L x W x H).....	310 x 55 x 89 mm
Measurement channel (length).....	5-20 mm
Fittings .....	¼"UNF
Type.....	VIS / NIR / UV (announced)
Wavelength .....	350 - 1100 nm
Resolution.....	~ 1.5 nm
Slit.....	25 µm
Fiber .....	400 µm

#### V

The valve module combines a customisable multi-port valve with a valve control unit in a compact housing. The standard configuration consists of a 6-port multi position valve from Rheodyne (up to 400 bar).



Dimensions (L x W x H).....	310 x 55 x 97 mm
Connection.....	10-32 / fittingless
Position capability .....	multiposition
Actuation speed .....	100 - 280 ms
Internal volume .....	0,28 – 32 µl
Pressure rating.....	0 – 400 bar (6000 psi)

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#### p

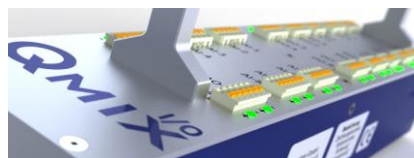
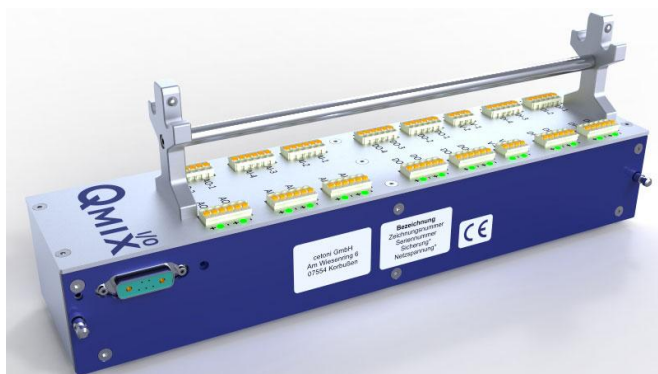
The pressure measurement module includes two independent pressure sensors with a small internal volume for pressure measurement of two separate fluid channels.



Dimensions (L x W x H).....	310 x 55 x 69 mm
Internal volume .....	113 µl
Fittings .....	¼"UNF
Materials .....	PPS, ceramics
Internal volume .....	113 µl
Pressure rating.....	0 – 20 bar (300 psi)

#### I/O

The Qmix I/O module provides a variety of digital and analog inputs and outputs for integration of external devices and sensors.



Dimensions (L x W x H).....	310 x 71 x 112 mm
Inputs .....	
digital .....	8
analog .....	4 (0-10 V / 0-20 mA)
Outputs .....	
digital .....	8
analog .....	2 (0-10 V / PWM)