



TRACE C2 Control – Continuous Online Monitoring and Control

TRACE C2 Control is used for online monitoring of important substrates and metabolites in cultivations of microorganisms and cell lines. Additionally, it provides direct PID-feed control with an integrated feed pump.

The ancillary equipment TRACE M4 can monitor up to four reactors.

Part	Description	Part no.
TRACE C2 Control	Scope of delivery: Device TRACE C2 Control, Power adapter and power plug, cross-over Ethernet cable, PC-Software (trace_mon) and user manual	141.000.000
TRACE M4	Scope of delivery: Device TRACE M4, Power adapter and power plug, Ethernet switch, Ethernet cable 3 m, 2x Ethernet cable 0.25 m PC-Software (trace_mon) and user manual	144.000.000
Spare parts		
Stand	Table tripod	730.000.010
Stand clamp	To fix the device at the stand	730.000.000
Knurled screw	Knurled screw for measurement cell (replacement)	137.000.031
Power adapter	Power supply	200.005.050
Power plug	Power cable for US, UK or EU	200.005.051
Consumables		
Tubing sets TRACE C2 Control	Dialysis (Glucose/Lactate)	130.200.000
	Dialysis (Glucose/Lactate/low)	130.200.003
	Filtration (Glucose/Lactate)	130.200.001
	Filtration (Glucose/Lactate/cellulase resistant)	130.200.002
	Dialysis (Ethanol/Methanol)	130.200.020
	Filtration (Ethanol/Methanol)	130.200.021
Tubing set TRACE C2/M4	Dialysis (Glucose/Lactate)	130.200.400
	Dialysis (Glucose/Lactate/low)	130.200.403
	Dialysis (Ethanol/Methanol)	130.200.420



Consumables

Part	Description	Part no.
Feeding pump	Feeding pump 1.0 with barb adapter for tubing up to ID 1.6 mm	130.200.100
	Feeding pump 2.5 with barb adapter for tubing up to ID 2.5 mm	130.200.110
Enzyme reactor	Application Ethanol/Methanol	811.100.120
Transport buffer, concentrated	20x, for cell cultivations (Glucose/Lactate), content: 0.5 liter	850.300.135
	5x, for microbial cultivations (Glucose/Lactate), content: 1 liter	850.300.102
	5x, Application Ethanol/Methanol, content: 1 liter	850.300.613
Calibration standard Content: 0.5 liter	0.1 g/l Glucose, 0.05 g/l Lactate	850.305.006
	0.5 g/l Glucose, 0.25 g/l Lactate	850.305.000
	1 g/l Glucose, 0.5 g/l Lactate	850.305.001
	2 g/l Glucose, 1 g/l Lactate	850.305.002
	4 g/l Glucose, 2 g/l Lactate	850.305.003
	10 g/l Glucose, 5 g/l Lactate	850.305.004
	20 g/l Glucose, 10 g/l Lactate	850.305.005
	0.2 g/l Methanol	850.301.002
	1 g/l Methanol	850.301.004
	5 g/l Methanol	850.301.005
	20 g/l Methanol	850.301.008
	0.5 g/l Ethanol	850.302.004
	2 g/l Ethanol	850.302.001
	4 g/l Ethanol	850.302.002
	40 g/l Ethanol	850.302.005
Cleaning solution Content: 1 liter	Application Glucose/Lactate; ready to use	850.300.710
	Application Ethanol/Methanol; ready to use	850.300.711



Sampling system dialysis probe		
Part	Description	Part no.
Dialysis probe	Scope of delivery: Dialysis probe, installation kit, 2 membranes and user manual	
	Length: 132 mm	860.202.510
	Length: 165 mm	860.202.520
	Length: 212 mm	860.202.530
	Length: 232 mm	860.202.540
	Length: 300 mm	860.202.545
	Length: 332 mm	860.202.550
	Length: 362 mm	860.202.560
	Length: 432 mm	860.202.570
Spare parts sampling system dialysis probe		
Adapter	25/12 mm for the installation of the 165 mm dialysis probe in 25 mm side port (Ingold port 52 mm)	860.301.001
	19/12 mm for the installation of the dialysis probe in 19 mm cover port (RD28x1/8")	860.300.017
	19/12 mm for the installation of the dialysis probe in 19 mm cover port (M26x1)	860.300.016
Lunette dialysis probe	-0.20 mm for the application Ethanol/Methanol	860.203.050
Retaining nut	PG 13.5 with o-ring and sliding ring	860.300.012
Installation kit	Parts for the installation of the dialysis probe in the bioreactor	809.100.130
Spare part for the installation kit	Adapter UNF/LUER male and female (5 pcs)	809.100.132
	Autoclave Loop UNF/UNF (5 pcs)	809.100.133
Consumables sampling system dialysis probe		
Membranes Content: 5 pieces	Application Glucose/Lactate	860.211.049
	Application Glucose/Lactate/cellulase resistant	860.211.043
	Application Glucose/Lactate/low measuring range	860.211.045
	Application Glucose/Lactate/low immersion depth	860.211.080
	Application Ethanol/Methanol	860.211.036



Sampling system bypass module		
Part	Description	Part no.
Bypass module	Scope of delivery: Bypass module, o-ring, installation kit, 2 membranes and user manual	
	Bypass module stainless steel, 3-part diffusion block with 2 barbed tubing adapter for I.D. 6 mm and I.D. 9 mm	860.202.001
	Bypass module PEEK, 2-part diffusion block with 2 pump tubing adapter for I.D. up to 2 mm	860.202.002
Spare parts sampling system bypass module		
Installation kit	For bypass module stainless steel For bypass module PEEK	809.100.135 809.100.136
Consumables sampling system bypass module stainless steel/PEEK		
Membranes Content: 5 pieces	Application Glucose/Lactate for measuring range 0.5 – 40 g/l measuring range 0.1 – 5 g/l (low)	860.211.050 860.211.046



Sampling system filtration probe		
Part	Description	Part no.
Filtration probe for the installation in 12 mm cover port	Scope of delivery: Filtration probe with LUER connection, blind plug, 1 membrane, o-ring, cap nut, retaining nut PG 13.5 and user manual	
	Standard version installation depth ca. 160 - 230 mm	860.300.300
	Extended version installation depth ca. 160 - 330 mm	860.300.301
	Extended version installation depth ca. 160 - 480 mm	860.300.302
Filtration probe for the installation in 25 mm side port	Scope of delivery: Filtration probe with LUER connection, blind plug, 1 membrane, cap nut, shut-off cock, o-rings and user manual	
	Standard version membrane length: 130 mm	860.300.320
	Short version membrane length: 90 mm	860.300.321
Spare parts sampling system filtration probe		
Adapter	19/12 mm for the installation of the 12 mm filtration probe in 19 mm cover port (RD 28x1/8")	860.300.017
	19/12 mm for the installation of the 12 mm filtration probe in 19 mm cover port (M26x1)	860.300.016
Membrane protective cage	For the filtration probe with membrane length 130 mm, installation in 25 mm side port (Insertion depth extended by ca. 25 mm)	860.300.350
	For the filtration probe with membrane length 90 mm, installation in 25 mm side port (Insertion depth extended by ca. 25 mm)	860.300.351
Retaining nut	PG 13.5 with o-ring and sliding ring	860.300.012
Blind plug	Locking the filtration probe	816.000.150
Hydrophilization set	Tubing set for the hydrophilization of filtration membranes	130.200.150
Consumables sampling system filtration probe		
Membranes	Length: 130 mm	860.300.330
	Length: 90 mm	860.300.331