

Operating steps			
1	Switch on instruments	6	Switch on air pump: press <AIR>, regulate air flow
2	Select method: → <USER METHODS>	7	Fill measuring vessels and insert
3	Change method: → <PARAM> (→ <CELL CONST>)	8	Sample preparation, fill reaction vessels and insert
4	Enter active channels and sample identifications: → <SAMPLE DATA>	9	Readjust air flow
5	Switch on heating: press <HEATER> when the set temperature is reached, the lamp "TEMP REACHED" lights up and a beep sounds	10	Start measurement: press <GO> Automatic measurement with evaluation and printout of the result report

Dialogue				
<b>Change:</b>		- call up parameters to be changed - enter new value - confirm with <ENTER>	<b>Exit:</b> press <QUIT>	
Key	Display	Meaning	Initial value	Input range
<b>USER METHODS</b>	▶ recall method: Y/N ?	Method recall: yes/no	-	Y; N
	▶ recall method (1 - 9) ?	Entry of method number of current method required	-	1 ... 9
	▶ store method: Y/N ?	Storage of current method: yes/no	-	Y; N
	▶ store actual method (1 - 9) ?	Entry of number under which current method should be stored	-	1 ... 9
	▶ method x is occupied! overwrite method x: Y/N ?	Overwriting of a stored method: yes/no (appears if the method number specified is already in use)	-	Y; N
	▶ delete method: Y/N ?	Clearing of a method: yes/no	-	Y; N
	▶ delete method (1 - 9) ?	Entry of method number of method to be cleared	-	1 ... 9
<b>SAMPLE DATA</b>	▶ method report: Y/N ?	Printout of method report with the most important parameters	-	Y; N
	▶ active channels: x x x x x x ok: Y/N ?	Display of active channels confirm: yes/no	1 2 3 4 5 6	Y; N
	▶ active channels (1 - 6) ?	Entry of active channels for current measurement (0 = all channels)	-	0; 1 ... 6
<b>REPORT</b>	▶ identification channel X:	Entry of sample identification for channel X (max. 10 characters)	-	0 ... 9; .
	▶ parameter report: Y/N ?	Printout of parameter report	-	Y; N
	▶ full report: Y/N ?	Printout of results and the parameter report	-	Y; N
	▶ method report: Y/N ?	Printout of method report with the most important parameters	-	Y; N
	▶ report of stored cell const.: Y/N ?	Printout of values stored in cell constant memory	-	Y; N
	▶ RS 232 send XXX : Y/N ?	On/off switching of RS 232 output Y = confirm ; N = OFF→ON→OFF→...	OFF	Y; N
	▶ RS 232 baud rate XXXX : Y/N ?	Baud rate for RS 232 output Y = confirm ; N = change: 1200 → 2400 → 4800 → 9600 → 1200 → ...	1200	Y; N
▶ RS 232 handshake XXX : Y/N ?	On/off switching of RS 232 handshake Y = confirm ; N = OFF→ON→OFF→...	ON	Y; N	
<b>DATE</b>	▶ date (YY-MM-DD) : XX	Entry of date: XX = YY year XX = MM month XX = DD day	00 01 01	YY: 0 ... 99 MM: 1 ... 12 DD: 1 ... 31
	▶ time (hh:mm) : XX	Entry of time: XX = hh hours XX = mm minutes	00 00	hh: 0 ... 23 mm: 0 ... 59

Key	Display	Meaning	Initial value	Input range
PARAM	▶ temperature (50 - 220 °C)	Sample set temperature	50 °C	50 ... 220 °C
	▶ temp. correction (0.0-9.9 °C)	Temperature correction (deviation of the actual temperature of the sample from the set temperature, measured with calibration thermometer)	0 °C	+0.0 ... 9.9 °C
	▶ cond.range (20,100,200 uS/cm)	Conductivity measuring range	200 µS/cm	20; 100; 200 µS/cm
	▶ evaluation modes: x/x/x	Evaluation modes: 1 = induction time 2 = time $\Delta t$ to the attainment of the preset conductivity change $\Delta \kappa$ 3 = conductivity change $\Delta \kappa$ during the preset time interval $\Delta t$	1/--	1; 2; 3
	▶ ev.mode 2: delta K (1 - 200)	Entry of conductivity change $\Delta \kappa$ for evaluation mode 2 (requested only when ev. mode 2 is set)	50 µS/cm	1 ... 200 µS/cm
	▶ ev.mode 3: delta t (1 - 48 h)	Entry of time interval $\Delta t$ for evaluation mode 3 (requested only when ev. mode 3 is set)	1 h	1 ... 48 h
	▶ delay time (0 - 48 h)	Delay time for the definitive end-point recognition; the end points appearing during this time interval are overwritten by a following end point.	0 h	0 ... 48 h
	▶ paper feed (1 - 20 cm/h)	Paper feed rate of printer	1 cm/h	1 ... 20 cm/h
	▶ x.xx x.xx x.xx x.xx x.xx x.xx cell constants ok: Y/N ?	Display of method-specific cell constants confirm: yes/no	-	Y; N
	▶ new cell constants: stored/stand.values (1/2): x?	Transfer of new cell constants to current method: 1 = stored cell constants 2 = standard cell constants (1.00 /cm)	1	1; 2
	▶ meas. time (1-48 h, >48=INF)	Analysis time; after expiry of this time the measurement is terminated automatically	48 h	1 ... 48 h; >48 = INF
	▶ end mode EP stop XXX : Y/N ?	XXX = ON: Automatic measurement termination when every active channel has reached all end points (EP) Y = confirm ; N = OFF→ON→OFF→...	OFF	Y; N
	▶ end mode heater stop XXX : Y/N ?	XXX = ON: Automatic switching off of heating on completion of measurement Y = confirm ; N = OFF→ON→OFF→...	OFF	Y; N
▶ end mode air stop XXX : Y/N ?	XXX = ON: Automatic switching off of air supply on completion of measurement Y = confirm ; N = OFF→ON→OFF→...	OFF	Y; N	
▶ parameter report: Y/N ?	Printout of parameter report	-	Y; N	
CELL CONST	▶ manual change: Y/N ?	Change in cell constants by entry via keypad	-	Y; N
	▶ cell constant (0.10-9.99 /cm) channel X:	Entry of cell constants for channel X	1.00 /cm	0.10 ... 9.99 /cm
	▶ new calibration: Y/N ?	New cell constant calibration: yes/no	-	Y; N
	▶ calibration channels: x x x x x x ok: Y/N ?	Display of channels for the calibration confirm: yes/no	1 2 3 4 5 6	Y; N
	▶ which channels (1 - 6) ?	Entry of channels to be calibrated (0 = all channels)	-	0; 1 ... 6
	▶ stand.sol.cond. (10-400 uS/cm)	Conductivity $\kappa$ of standard solution	200 µS/cm	10 ... 400 µS/cm
	▶ start calibration: Y/N ?	Start calibration: yes/no	-	Y; N
	▶ * Calibration Run *	Automatic calibration is running	-	-
	▶ x.xx x.xx x.xx x.xx x.xx x.xx calibration data ok: Y/N ?	Display of new cell constant values confirm: yes/no	-	Y; N
	▶ x.xx x.xx x.xx x.xx x.xx x.xx insert into actual method:Y/N?	Transfer of displayed cell constants to current method (method 0): yes/no	-	Y; N
▶ x.xx x.xx x.xx x.xx x.xx x.xx store new cell constants: Y/N?	Transfer of displayed cell constants to cell constant memory: yes/no	-	Y; N	
▶ report of stored cell const.: Y/N	Printout of values stored in cell constant memory	-	Y; N	

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