

Conductivity Cells

Meters

TetraCon®

For more than 50 years WTW has been one of the leading manufacturers worldwide of precision conductivity meters and cells. The TetraCon® 4-electrode system is the result of our commitment to quality and sets a new standard for professional conductivity measurements. In comparison with conventional measuring cells with 2 electrodes, the TetraCon® conductivity cell offers numerous technical advantages:

- Highest degree of precision and linearity by optimized cell geometry
- Extremely large measuring range with just one cell
- Long-term cell constant stability with high-quality abrasion-resistant graphite electrodes
- With built-in temperature sensor as standard
- Smallest immersion depth possible
- No measuring errors even with very dirty electrode – contact resistance on the electrode surface is automatically compensated
- No measuring errors from cable influences
- No measuring errors from primary or secondary polarization effects
- No measuring errors due to contact with side walls or base of measuring vessels
- Robust, unbreakable epoxy body

Selection Guide

Measuring cell	VARIO C _{ond}	Cond 315i	LF 315	LF 318	LF 320/323/325	LF 330/340A	Cond 330i/340i	inoLab® Cond, pH/Cond, Multi	LF 537	LF 538	LF 539	LF 3000	MultiLab® 540	MultiLab® P4/P5	MultiLine® P4, Multi 340i, Multi 197i	MultiLine® P3 pH/LE, pH/Cond 340i	Multi 350i	LF 197	LF 597	Cond 197i
LTA 1			②	②	②	②	②	②	●	●	②					②	②			②
LTA 10									●		●		②				②			
LR 01/T									●		●	●		●						
KLE 1/T									●		●	●		●						
KLE 315			●																	
TetraCon® 96									●		●	●		●						
TetraCon® 96-1,5									●		●	●		●						
TetraCon® 325		●		●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●
TA 197 LF																		●		
TetraCon® 325/Pt																				
TetraCon® DU/T					⑤	⑤	⑤	⑤	④	⑤	④	④	⑤	④			⑤	⑤	⑤	⑤
TetraCon® DU/TH					⑤	⑤	⑤	⑤	④	⑤	④	④	⑤	④			⑤	⑤	⑤	⑤
LR 325/01		●			●	●	●	●		●			●				●	●	●	●
LR 325/001						●	●	●					●				●	●	●	●
TetraCon® 325/S					●	●	●	●		●			●				●	●	●	●
ConOx																	●			
TetraCon® V	●																			
LR01 V	●																			

Adapter (possible conversion with cell constants) is required:

- ② Adapter cable K/LTA together with temperature sensor TFK 325 or TFK 150
- ④ Connection cable KKDU
- ⑤ Connection cable KKDU 325

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	Standard conductivity cell		Special conductivity cell TetraCon® 325/S	Ultrapure water conductivity cell		Trace conductivity cell LR 325/001	Conductivity flow-thru cell TetraCon® DU/T
	TetraCon® 325	TetraCon® V		LR 325/01	LR01 V		
Order No.	301 960	301 990	301 602	301 961	301 992	301 962	301 252**
Electrode material	Graphite		Graphite	V4A steel		V4A steel	Graphite
Flow-thru vessel	-		-	-		V4A steel	-
Shaft material	Epoxy		Epoxy	V4A steel		V4A steel	Epoxy
Shaft length	4.72 in (120 mm)		4.72 in (120 mm)	4.72 in (120 mm)		4.72 in (120 mm)	6.10 in (155 mm)
Cell constant	K = 0.475 cm ⁻¹		K = 0.491 cm ⁻¹	K = 0.1 cm ⁻¹		K = 0.01 cm ⁻¹	K = 0.778 cm ⁻¹
Diameter	0.60 in (15,3 mm)		0.60 in (15,3 mm)	0.47 in (12 mm)		0.79 in (20 mm)	-
Cable length	4.9 ft (1.5 m)		4.9 ft (1.5 m)	4.9 ft (1.5 m)		4.9 ft (1.5 m)	3.3 ft (1 m) (only with KKDU 325)
Measuring range	1 µS/cm ... 2 S/cm*		1 µS/cm ... 2 S/cm*	0.001 µS/cm ... 200 µS/cm		0.0001 µS/cm ... 30 µS/cm	1 µS/cm ... 2 S/cm*
Temperature range	32 ... 212 °F (0 ... 100 °C)		32 ... 212 °F (0 ... 100 °C)	32 ... 212 °F (0 ... 100 °C)		32 ... 212 °F (0 ... 100 °C)	32 ... 140 °F (0 ... 60 °C)
Filling volume	-		-	17 ml (without sensor)		ca. 10 ml (without sensor)	7 ml
Min./max. immersion depth	36/120 mm	40 mm	40/120 mm	30/120 mm	40 mm	40/120 mm	-

* Measuring range depends on particular instrument, ** Adapter cable KKDU 325 (order no. 301 963), length 3.3 ft (1 m), is necessary for the connection

For additional special measuring cells or other cable lengths see brochure "Product Details"

Parameter

pH

ORP

ISE

Oxygen (D.O.)

Conductivity

Multi-parameter

BOD/Respiration

Photometers

Turbidity

Colony Counter

Software/Printers

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