

Just one single probe for measuring conductivity from very low  $(10 \ \mu \text{S/cm})$  up to very high levels (500 mS/cm)

4-contact graphite electrode with high linearity across the whole measuring range

Integrated NTC sensor for temperature compensation of measured conductivity values

Suitable for the latest ALMEMO® V7 devices, including ALMEMO<sup>®</sup> professional measuring instrument 202 and precision measuring instrument ALMEMO<sup>®</sup> 710.

#### ALMEMO® 202

# Technical data and functions

The digital conductivity probe provides this high level of temperature compensation can be activated or deactivated. The precision irrespective of any extension cables used and of any processing in the ALMEMO® V7 display device / data logger.

Overall accuracy is determined exclusively by the conductivity electrode and the ALMEMO<sup>®</sup> D7 plug.

All parameters for the sensor can be programmed end-to-end via the programming menu on the ALMEMO® V7 measuring instrument. The desired measuring range can be selected and

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temperature coefficient of the solution to be measured, if known, can also be programmed.

The probe is delivered already adjusted and ready-to-use. The electrode's measured cell constant can also be entered, if so required, and / or the probe can be adjusted using a reference solution.

#### Common technical data FYD 741 LFE01 and FYD 741 LFP ALMEMO<sup>®</sup> D7 plug with A/D converter

Measuring method	Electrical conductivity measurement with AC voltage (approx. 1 kHz)	Temperature coefficient	Natural surface water or linear in range 0.00 to 9,99	
Measuring ranges Range DLF1	up to maximum 500.00 µS/cm Resolution 0.01 µS/cm up to 50.000 mS/cm Resolution 0.001 mS/cm (factory default settings) with FYD 741 LFE01 up to 500.00 mS/cm with FYD 741 LFP up to 200.00 mS/cm Resolution 0.01 mS/cm Resolution 0.01 K	Linearization NTC	Calculated error-free (not an approximation)	
Range DLF2 Range DLF3		Nominal temperature	+23 °C ±2 K	
		Temperature drift	0.004 % / K (40 ppm)	
		Refresh time	2.5 seconds	
		Sleep mode on the device possible with wakeup delay of 5 seconds		
		Supply voltage	6 to 13 VDC, from ALMEMO <sup>®</sup> device (sensor supply voltage)	
Range NTC		Current consumption	approx. 17 mA	
Temperature compensation either automatic or non-compensated				



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# Water analysis

# Digital probe for measuring conductivity FYD 741 LFP



Probe for process applications

General description and common technical data see previous page

# Technical data FYD 741 LFP

Uses Conductivity	Process applications 10 μS/cm up to 200 mS/cm	
Temperature Pressure	0 to +70 °C up to 16 bar under nominal conditions	
Process connection	Thread G <sup>3</sup> / <sub>4</sub> -inch Fitted length 145 mm	
Electrode type	4-contact graphite electrode electrically connected to the power supply (ALMEMO <sup>®</sup> device ground)	
Cell constant	approx. 0.5 cm <sup>-1</sup>	
Temperature sensor	NTC 10 kilohms, integrated	
Accuracy Conductivity	$\pm 3\%$ of meas. value $\pm 0.2\%$ of final value under nominal conditions	
Temperature	$\pm 0.2$ K under nominal conditions	
Nominal conditions	$+25$ °C $\pm 2$ K	
Minimum immersion depth 30 mm		
Electrode shaft	Material PVC-C diameter 20 mm, length 130 mm	
Connecting cable	length = 1.5 meters, permanently fitted, with ALMEMO <sup>®</sup> D7 plug	

# Digital probe for measuring conductivity FYD 741 LFE01



Probe for laboratory applications

General description and common technical data see previous page

# Technical data FYD 741 LFE01

Uses	Laboratory applications	
Conductivity	10 µS/cm up to 200 mS/cm,	
	on demand up to 500 mS/cm	
Temperature	0 to +80 °C	
Pressure	Ambient pressure (unpressurized)	
Electrode type	4-contact graphite electrode	
	electrically connected to the power supply	
	(ALMEMO <sup>®</sup> device ground)	
Cell constant	approx. 0.5 cm <sup>-1</sup>	
Temperature sensor	NTC 30 kilohms, integrated	
Accuracy		
Conductivity	$\pm 2\%$ of meas. value $\pm 0.2\%$ of final value	
	under nominal conditions	
Temperature	±0.4 K under nominal conditions	
Nominal conditions	+25 °C ±2 K	
Minimum immersion depth 30 mm		
Electrode shaft	Material PC (+ABS)	
	diameter 12 mm, length 120 mm	
Connecting cable	length = 1 meter, permanently fitted, with ALMEMO <sup>®</sup> D7 plug	

#### Variants

#### Order no.

# Variants

### Order no.

Digital probe for measuring conductivity, integrated temperature sensor, with process connection G <sup>3</sup>/<sub>4</sub>-inch, permanently fitted cable with ALMEMO<sup>®</sup> D7 plug,

probe for process applications

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FYD741LFP
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#### Digital probe for measuring conductivity, integrated temperature sensor, with permanently fitted cable with ALMEMO® D7 plug,

probe for laboratory applications

FYD741LFE01