

CONDUCTIVITY PROBES

EMEC conductivity electrodes are the ideal complements to Emec controllers for an accurate and reliable control of processes.

Conductivity easy-maintenance electrodes, provide accurate reading values and fast responses, performances required for the most accurate measurements. The section below shows the electrode's differences so that you can select the model best fit for your requirements.

MODELS

	ECDHL/01	ECDHL/1	ECDHL/10	ECDHLC/01	ECDHLC/1	ECDHLC/10	ECDHLCPT/01	ECDHLCPT/1	ECDHLCPT/10
Measuring Range	0-200 µS	0,2-20 mS	20-200 mS	0-200 µS	0,2-20 mS	20-200 mS	0-200 µS	0,2-20 mS	20-200 mS
K Factor	0,1	1	10	0,1	1	10	0,1	1	10
Max Pressure/ Temperature	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C	7bar/70 °C
Body	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
Electrodes	Platinum	Platinum	Platinum	Platinum	Platinum	Platinum	Platinum	Platinum	Platinum
Diameter	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm
Probe Length	170 mm	170 mm	170 mm	170 mm	170 mm	170 mm	170 mm	170 mm	170 mm
Electrical Connection	3 wires	3 wires	3 wires	5 wires	5 wires	5 wires	5 wires	5 wires	5 wires
Cable Length	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m
Temperature Compensator	NO	NO	NO	NTC	NTC	NTC	PT100	PT100	PT100

	ECDC/1	ECDC/10	ECDC/1	ECDC/10	ECDC/1	ECDC/10	ECDC/20
Measuring Range	0-20 mS	0-200 mS	0-20 mS	0-200 mS	0-20 mS	0-200 mS	10-20.000 µS
K Factor	1	10	1	10	1	10	0.8
Max Pressure/ Temperature	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60°C (0bar/80°C)
Body	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF	PVC
Electrodes	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
Diameter	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	M20 and fixing nut
Probe Length	90 mm	90 mm	90 mm	90 mm	90 mm	90 mm	45 mm
Electrical Connection	3 wires	3 wires	5 wires	5 wires	5 wires	5 wires	5 wires
Cable Length	4 m	4 m	4 m	4 m	4 m	4 m	4 m
Temperature Compensator	NO	NO	NTC	NTC	PT100	PT100	NTC

	ECDI/1	ECDI/02	ECDI/01	ECDIC/1	ECDIC/02	ECDIC/01	ECDICPT/1	ECDICPT/02	ECDICPT/01
Measuring Range	0-5 mS	0-500 µS	0-200 µS	0-5 mS	0-500 µS	0-200 µS	0-5 mS	0-500 µS	0-200 µS
K Factor	1	0.2	0.1	1	0.2	0.1	1	0.2	0.1
Max Pressure/ Temperature	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)	7bar/60 °C (2bar/100°C)
Body	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF
Electrodes	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Diameter	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Probe Length	45 mm	65 mm	75 mm	45 mm	65 mm	75 mm	45 mm	65 mm	75 mm
Electrical Connection	3 wires	3 wires	3 wires	5 wires	5 wires	5 wires	5 wires	5 wires	5 wires
Cable Length	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m	4.5 m
Temperature Compensator	NO	NO	NO	NTC	NTC	NTC	PT100	PT100	PT100

	EICDC/1	EICDC/01	EICDC/001	EICDCPT/1	EICDCPT/01	EICDCPT/001	ECDHTP/1	ECDHTP/01
Measuring Range	0-5 mS	0-200 µS	0-20 µS	0-5 mS	0-200 µS	0-20 µS	0-5 mS	0-5 mS
K Factor	1	0.1	0.01	1	0.1	0.01	1	0.1
Max Pressure/ Temperature	15bar/130 °C	15bar/130 °C	15bar/130 °C	15bar/130 °C	15bar/130 °C	15bar/130 °C	15bar/200 °C	15bar/200 °C
Body	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless Steel	Stainless Steel
Electrodes	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless Steel	Stainless Steel
Diameter	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Probe Length	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm
Cable Length	4 m	4 m	4 m	4 m	4 m	4 m	4.5 m	4.5 m
Temperature Compensator	NTC	NTC	NTC	PT100	PT100	PT100	NTC	NTC