

CONDUCTIVITY PANELS – PNL S507-CCK

These panels are supplied ready for use, assembled and wired, complete with:

- Electronic control unit, S507-CO
- Two-electrode conductivity cell (CCK series)
- Flow through probe-holder
- Options: filter and flow sensor

Versions are also available for use in domestic hot water and with integrated dosing pump.
See assembly examples at the end of this data sheet.

TECHNICAL DATA

S507 Control Unit

Power Supply	230 V~ ±10%, 50/60Hz, max. 7 VA (other options on request)	
Display	dual row, alphanumeric LCD, with backlight	
Analogic Inputs	precision better than 0.3% FS / repeatability better than 0.2% FS	
Conductivity Input	for two-electrode cell (CCK series) available on removable 4-pole terminal block; measurement range depending on the cell used	
Temperature Input	directly from Pt100 sensor, available on removable 2-pole terminal block; range -50.0 ... +200.0 °C	
Digital Input	OFF input for disabling outputs; accept voltage-free contact; 5V power output, max 5mA	
Relay Outputs	2 independent outputs, available on removable 5-pole terminal block; contact max load 250 V~ , 3 A resistive	
Current Output	0 / 4-20 mA (configurable); max load 600Ω ; error max 0.5% FS; with galvanic separation	
Serial Port	standard RS232, on removable 4-pole terminal block	
Environment	Storage temperature	-20 ... +60 °C
	Working temperature	-10 ... +50 °C
	RH max	90% no condensing
Casing	ABS, watertight, wall-mounting with 4 screws	
Protection Rate	IP66	

Two-electrode CCK cell, for measurement of electrical conductivity

Cell Body	PVC or PTFE (depending on model), with standard ½" GAS thread, for direct in-line installation, or probe-holder fitting
Working Temperature	0 ... 45°C for PVC cells / 0 ... 130°C for PTFE cells
Working Pressure	max 5 bar for PVC cells / max 3 bar for PTFE cells
Thermo-compensation	models with built-in PT100 sensor
Temperature Error max	PT100 class B: $\pm 0.3^{\circ}\text{C}$ @ 0°C , $\pm 0.8^{\circ}\text{C}$ @ 100°C
Cable	shielded, length 5 m (unless otherwise stated)

Model	CCK5 Series	CCK1 Series
Electrodes	Stainless steel AISI316	Graphite
Limits of use	From clean water ($0.5\text{--}1\text{ }\mu\text{S/cm}$) up to $1500\text{--}1600\text{ }\mu\text{S/cm}$	$1 \dots 20000\text{ }\mu\text{S/cm}$ (20 mS/cm)
Cell constant	$K = 5\text{ cm}$ (0.2 cm^{-1}) $\pm 5\%$ (mechanical tolerance)	$K = 1\text{ cm}$ (1 cm^{-1}) $\pm 5\%$ (mechanical tolerance)

ASSEMBLY EXAMPLES

