



 **Cole-Parmer®**

TOROIDAL CONDUCTIVITY TRANSMITTERS

New

RUGGED ELECTRODELESS SENSOR HANDLES DIFFICULT APPLICATIONS



Cole-Parmer industrial conductivity transmitters are an economical, low-voltage measurement solution to your industrial process. These rugged transmitters have even been used as leak detection indicators at tank storage facilities, at a fraction of the cost of existing controller systems.

- Toroidal technology is ideal for harsh environments such as metal plating, wastewater, or any highly acidic or caustic application
- Electrodeless sensor will not coat, clog, or corrode like a traditional contacting conductivity sensor
- Versatile design—1½" NPT(M) threads allow in-line or submersible installation
- CPVC and PVDF materials offer chemical compatibility with almost any fluid type
- Three measuring ranges—0 to 10, 0 to 100, or 0 to 1000 mS—ensure accuracy and dependability in any application
- Built-in 100Ω Pt RTD temperature sensor accurately adjusts for changing process temperatures



In the U.S.

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In India

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International customers

Call 847-549-7600 to reach our
 International Sales Department
 or contact your local dealer.

**FREE TECHNICAL
 APPLICATIONS ASSISTANCE!**

The Cole-Parmer® toroidal conductivity sensor is coupled with a rugged, two-wire, loop-powered 4 to 20 mA transmitter—offering a cost-effective, low-voltage measurement solution in your industrial process.

Just wire the sensor to an 11- to 24-VDC power supply and connect the 4 to 20 mA output to a recorder or computer control system, and you have a measurement system at a fraction of the cost of typical conductivity measurement and control systems.

Ideal for use in the chemical, food and dairy, refinery, pulp and paper, metal finishing, and wastewater industries.



CPVC model 19504-02



PVDF model 19504-10

PERFORMANCE SPECIFICATIONS

- Sensor has a temperature coefficient of 2.2% / °C
- Sensor measures 8" long with a 3½" insertion depth
- Transmitter has 10-ft cable with tinned ends

Catalog number	Body material	Range (mS)	Max pressure	Fitting	Max temperature*
ML-19504-00	CPVC	0 to 10	3 bar at 25°C	1½" NPT(M)	40°C
ML-19504-02		0 to 100			
ML-19504-04		0 to 1000			
ML-19504-10	PVDF	0 to 10	3 bar at 25°C	1½" NPT(M)	40°C
ML-19504-12		0 to 100			
ML-19504-14		0 to 1000			

*Higher temperature ranges are available; contact our Application Specialists.

Accessories

[ML-94785-12](#) Process meter to power and display transmitter measurement

