



Cole-Parmer® Twist-Lock Conductivity Cells

Get secure, leakproof readings

NEW

- No-leak design features two external Viton® O-rings
- Locking pins keep cell in position
- Rugged design features 12-mm sensor and 1" NPT(M) to threads

Use an optional adapter along with the twist-lock cell to convert a standard pipe tee to a flow-through sensor assembly. The optional cable provides an additional 20 feet (6 meters) of coverage.

Specifications

Housing material:
Ryton PPS with Viton O-rings

Sensor material:
316 stainless steel and PEEK

Cell type:
in-line, submersible

Cell length: 6" (15.2 cm)

Cable:
10 ft (3 m) with 4-pin military detachable connector

Fitting: 1" NPT(M)

Temperature range: 23 to 275°F (–5 to 135°C)

Maximum pressure: 150 psig

Cell constant (K)	ATC element	Catalog number	Price
0.01	100 Ω Pt RTD	GY-19500-25	
0.1		GY-19500-27	
1		GY-19500-29	

GY-19500-15 Twist-Lock cable; 4-pin detachable connections on one end and hanked on opposite end, 20-ft (6-m) lead wire

GY-19500-17 Twist-Lock adapter, 1" NPT(M) process connection

GY-05993-74 Adapter collar for pipe tee

GY-05994-61 Pipe tee, 1" NPT(F)

Cole-Parmer® Conductivity/Resistivity Cells and Accessories

Replace cells economically

- 10-ft (3-m) cables with stripped ends
- Flow-through, in-line, swage, and dip styles available

Cells withstand pressures up to 150 psi (at 135°C for SS; 25°C for CPVC and PVDF). Use 19500-58 for flow-through applications up to 1 GPM at 80 psi. All cells have 10-ft (3-m) cable with stripped ends except for 35820-62, which has a 25-ft (7.6-m) cable. Use 35820-62 as a dip style sensor or combine with holder 35820-64 for in-line applications.



Cell type I
19500-45

Cell type I/S
19500-50

Cell type D
19500-56

27003-80

Cell type F
19500-58

19500-14

35820-64

In-Line Fittings

Body material	Fitting	Temperature range	Catalog number	Price
1" NPT(F) T-Fittings with adapter				
CPVC	½" NPT(F)	–5 to 80°C	GY-27003-84	
PVDF	½" NPT(F)	–5 to 110°C	GY-27003-86	
CPVC	¾" NPT(F)	–5 to 80°C	GY-27003-80	
PVDF	¾" NPT(F)	–5 to 110°C	GY-27003-82	
In-line fitting for dip style (12-mm dia) cells				
316 SS	½" NPT(M)	–5 to 135°C	GY-19500-14	
Nylon	¾" NPT(M)	–5 to 80°C	GY-35820-64	

100 Ω Pt RTD Cells

Body material	Electrode material	Cell type†	Fitting	Temperature range	Catalog number	Price
Conductivity/resistivity 2-electrode cell, K = 0.01 (up to 20 μS/cm)						
SS	SS	I	½" NPT(M)	–5 to 135°C	GY-19500-43	
Conductivity 2-electrode cell, K = 0.1 (up to 200 μS/cm)						
SS	SS	I	½" NPT(M)	–5 to 135°C	GY-19500-44	
Glass	2 Pt bands	D	None††	–5 to 100°C	GY-19500-52	
SS	SS	D	None††	–5 to 100°C	GY-19500-06	
Epoxy	Graphite	I/S	¾" NPT(M)	–5 to 80°C	GY-35820-21	
Conductivity 2-electrode cell, K = 1.0 (up to 5 mS/cm)						
SS	SS	I	½" NPT(M)	–5 to 135°C	GY-19500-45	
Epoxy	Graphite	I/S	¾" NPT(M)	–5 to 80°C	GY-19500-50	
PVDF	Graphite†	I/S	¾" NPT(M)	–5 to 110°C	GY-19500-54	
Glass	2 Pt bands	D	None††	–5 to 100°C	GY-19500-56	
Glass	Graphite	F	¼" ID tube	0 to 80°C	GY-19500-58	
SS	Titanium	D	None††	–5 to 130°C	GY-19500-08	
Epoxy	Graphite	D	None††	–5 to 80°C	GY-35820-22	
Conductivity 2-electrode cell, K = 10.0 (greater than 1 mS/cm)						
CPVC/glass	2 Pt bands	I/S	¾" NPT(M)	–5 to 80°C	GY-19500-46	
PVDF/glass	2 Pt bands	I/S	¾" NPT(M)	–5 to 110°C	GY-19500-47	
Epoxy	Graphite	I/S	¾" NPT(M)	–5 to 80°C	GY-35820-22	

10 KΩ Thermistor Conductivity Cells

Body material	Electrode material	Cell type†	Fitting	Temperature range	Catalog number	Price
Conductivity cell, K = 0.01 (up to 20 μS/cm)						
SS	SS	I	½" NPT (M)	–5 to 135°C	GY-19500-63	
Conductivity cells, K = 0.1 cm (up to 200 μS/cm)						
SS	SS	I	½" NPT (M)	–5 to 135°C	GY-19500-64	
Glass	2 Pt bands	D	None††	–5 to 100°C	GY-19500-22	
Conductivity cells, K = 1.0 (up to 5 mS/cm)						
SS	SS	I	½" NPT (F)	–5 to 135°C	GY-19500-65	
CPVC	Graphite	I	½" NPT (M)	–5 to 80°C	GY-19500-00	
PVDF	Graphite†	I	½" NPT (M)	–5 to 110°C	GY-19500-10	
Glass	2 Pt bands	D	None††	–5 to 100°C	GY-19500-20	
Glass	2 Pt bands	F	¼" ID tube	–5 to 100°C	GY-19500-30	
Conductivity cells, K = 10.0 (greater than 1 mS/cm)						
CPVC	2 Pt bands	I	¾" NPT (M)	–5 to 80°C	GY-19500-66	
PVDF	2 Pt bands	I	¾" NPT (M)	–5 to 110°C	GY-19500-67	

†F = Flow through, I = In-line, D = Dip style, S = Submersible

†Epoxy is used to seal cell tip. Check epoxy for chemical compatibility.

††For use with dip-style fittings.