Call **800.959.0299** to speak with a sales representative or visit us on the web at **www.analyticaltechnology.com**

4-ElectrodeConductivity Transmitter



Model Q45C4

ATI's 4-Electrode Conductivity Transmitter is the answer for monitoring almost any water-based process. Drinking water, plating bath solutions, cooling water, process wash water, or virtually any other aqueous system can be monitored accurately and reliably. The unique drive/control scheme used in the 4-Electrode System allows a single sensor configuration to be used in conductivity ranges from 0-200 μS to as high as 0-2,000 mS (0-2 S).

The "auto-ranging" feature enables the monitor to display the actual conductivity value during "overshoot" conditions. If your application involves very low conductivity/ resistivity measurement, ATI can provide the Q45C2 system that is used in process waters with conductivities below $20~\mu S$.

Applications

Cooling Towers Chemical Processing

Plating Baths Fish Farms
Potable Water Wastewater

Streams & Rivers Salt Water Intrusion

Features

- Measurement from 0-200 uS to 0-2.000 S.
- Loop-powered or battery-operated
- External 5-17 VDC version for solar applications
- 4-Electrode sensor design for fouling compensation
- Titanium electrodes for corrosion resistance
- Submersion, In-line, or Sanitary sensors
- Large, easy-to-read LCD display
- · Clear, menu-driven user interface
- NEMA 4X (IP-66) enclosure
- Wall or pipe mounting bracket standard
- · Built-in PID controller

Sensor Options





Sanitary Sensor

Convertible Sensor



Insertion Sensor



Q45C4 SPECIFICATIONS

ELECTRONIC MONITOR

LLLC1 HOHIC MOHITON		
	Display Range	0-200 μS 0-2.000, 0-20.00, 0-200.0, 0-2000 mS 0-2.000 S
	Accuracy	$\pm 0.5\%$ of selected range
	Repeatability	0.2% of selected range
	Sensitivity	0.05% of selected range
	Linearity	0.1% of selected range
	Temperature Drift	0.1% of span/°C
	Sensor Type	Q25C4 4-Electrode
	Temperature Input	Pt1000 in sensor for temperature compensation
	Power	2- Wire unit: 17-30 VDC, 25 mA maximum Battery unit: Two AA alkaline batteries External DC: 5-17 VDC, 10 mA maximum
	Analog Outputs	2-Wire unit: Single 4-20 mA DC, 450 ohms maximum Battery unit: Two 0-2.5 VDC, 50K ohms minimum External DC: Two 0-2.5 VDC, 50K ohms minimum
	Output Isolation	600 V Galvanic isolation
	Enclosure	NEMA 4X (IP-66) Polycarbanate, V-0 flammability
	Mounting Options	Wall or pipe mounting bracket supplied
	Conduit Entries	Two PG-9 cord grips, 0.16-0.31 diameter cable
	Ambient Temperature	Operating: -40° to + 60°C Storage: -40° to + 70°C
	Ambient Humidity	0-95%, Non-condensing
I	Size	4.4"H x 4.4"W x 3.5"D (111 x 111 x 90 mm)
ı	Weight	2-Wire or External DC unit: 1 lb (0.45 Kg) Battery unit: 2 lbs (0.9 Kg)
	Certifications	CE marked to BS EN 61326-1:2006 Standard UL and CSA General Purpose

Short Term Conductivity Data Logger

Model PQ45: Portable Conductivity Monitor

The perfect solution for temporary monitoring from a few days to a few weeks!





PQ45 Portable Conductivity Data Logger

ORDERING INFORMATION

Q45C4-A-B-C 4-Electrode Conductivity Transmitter

Suffix A - Power

- 1 24 VDC, 2-wire (single output only)
- 4 Battery-operated with two 0-2.5 VDC outputs
- 5 External 5-17 VDC with two 0-2.5 VDC outputs

Suffix B - Mounting Style

- 1 Convertible, PEEK body
- 2 Insertion, 316SS body
- 3 Sanitary-Style, 1-1/2", 316SS body
- 4 Sanitary-Style, 2", 316SS body
- 5 Convertible, PEEK body with connector (Notes 3 and 4)
- 6 Flow type sensor with connector, noryl, for sealed flowcell 00-1522 (see notes 3 & 4)

Suffix C - Cable Length

- 1 15 ft.
- 2 30 ft.
- 9 Special

ACCESSORIES

- **07-0100** Universal junction box, NEMA 4X
- **31-0057** Sensor interconnect cable
- **03-0029** Sensor cable with connector (25 ft.)
- **00-0628** Mounting bracket kit for submersible sensor
- **00-1522** Sealed flowcell
- **47-0005** 2"U-bolt, 304SS
- **07-0209** 1" NPT Tee, CPVC
- **07-0210** 2" NPT Union/Tee mount, CPVC (uses existing 2" tee)
- **07-0221** 1-1/2" NPT Union/Tee mount, CPVC (uses existing 1-1/2" tee)
- **07-0203** Sensor insertion assembly without assist, 1-1/4"NPT, 316SS
- **07-0228** Sensor insertion assembly with assist, 1-1/4" NPT, 316SS
- **07-0223** Insertion assembly without assist, 1-1/4"NPT, 316SS
- 09-0047 Conductivity standard 447 microSiemens, 500 mL
- 09-0048 Conductivity standard 1,500 microSiemens, 500 mL
- **09-0049** Conductivity standard 8,974 microSiemens, 500 mL
- 09-0050 Conductivity standard 80,000 microSiemens, 500 mL

NOTES:

- **1** All sensor cable lengths greater than 30 feet require a junction box (07-0100) and sensor interconnect cable (31-0057).
- 2 Pipe mount requires two 2" U-bolts (47-0005).
- **3** Connector is not waterproof. Use only in protected areas.
- 4 Suffix B, Option 5 and 6 requires sensor cable (03-0029).





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