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 μ S 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. For chemical mixing applications, a concentration display can be selected for a limited number of acids and bases. If your application involves very low conductivity/resistivity measurement, ATI can provide the Q45C2 system that is used in process waters with conductivities below 200 μ S.

Applications

Cooling Towers Plating Baths Potable Water Streams & Rivers Chemical Processing Fish Farms Wastewater Salt Water Intrusion

Features

- Measurement from 0-200 uS to 0-2.000 S.
- Option for NaCl, NaOH, or HCl concentration display
- · Loop-powered or battery-operated
- External 5-17 VDC version for solar power applications
- 4-Electrode sensor design for fouling compensation
- Titanium electrodes for corrosion resistance
- Submersion, In-line, or sanitary-style 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

Display Range	0-2000 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
Size	4.4"H x 4.4"W x 3.5"D (111 x 111 x 90 mm)
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 - Pc 1 - 24 VDC, 2 4 - Battery-o 5 - External 5	wer -wire (single output only) perated with two 0-2.5 VDC outputs 5-17 VDC with two 0-2.5 VDC outputs
Suffix B - M 1 - Convertibl 2 - Insertion, 3 - Sanitary-S 4 - Sanitary-S 5 - Convertibl 6 - Flow type (see notes	ounting Style le, PEEK body 316SS body style, 1-1/2", 316SS body Style, 2", 316SS body le, PEEK body with connector (Notes 3 and 4) sensor with connector, noryl, for sealed flowcell 00-1522 3 & 4)
Suffix C - Ca 1 - 15 ft. 2 - 30 ft. 9 - Special	ble Length
ACCESSO 07-0100 Ui 31-0057 Se	RIES niversal junction box, NEMA 4X

- **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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