

Model 772E
Electrodeless Conductivity / Concentration / TDS Analyzer

Features :

- **Multiple measurements.**
(Conductivity, % Concentration, or TDS)
- **Accepts RTD 1K ohm temperature input.**
- **Multiple temperature compensations - linear, user-defined, none.**
- **Built-in concentration tables plus user-defined concentration table.**
- **Large backlit LCD readout.**
- **Two isolated 4-20 mA analog outputs.**
- **Menu - guided operation.**
- **Universal-mount 1/2 DIN case.**
- **Passcode – protected access.**
- **Electrical Protection.**
- **Optional RS-232 communication.**



▪ **Specifications**

DisplayGraphic dot matrix LCD, 128 x 64 pixels with LED backlighting; 1/2 inch (13 mm) main character height; 1/8 inch (3 mm) auxiliary information character height; menu screens contain up to six text lines

Measurement Selectable Ranges
 Conductivity mS/cm: 0-200.0 or 0-2000, mS/cm: 0-2.000, 0-20.00, 0-200.0 or 0-2000, S/cm: 0-2.000
 % Concentration 0-99.99%
 TDS..... 0-9999 ppm
 Temperature -20.0 to + 200.0 °C
 mA Outputs (# 1 and # 2) 4.00-20.00 mA

Ambient Conditions:
 -30 to + 50 °C (-22 to +122 °F); 0-100% relative humidity, non-condensing

Relays: Types/Outputs Two electromechanical relays; SPDT (Form C)
 Contacts; U. L. rated 5A 115/230 VAC, 5A@ 30 VDC resistive

Operational Mode Each relay (A, B) can be assigned to be driven by the selected parameter (conductivity, % concentration, or TDS) or measured temperature

Function Modes:
 Control: Settings for high/low phasing, setpoint, deadband.
 Alarm: Settings for low alarm point, low alarm point deadband, high alarm point, high alarm point deadband.

Indicators Relay A and B annunciators indicate respective relay status.

Temperature Compensation Automatic or manual, -20.0 to +200.0 °C with selection for Pt 1000 ohm RTD temperature element
 or a manually entered value from 0 °C to 200 °C

Note: Depending on the selected measurement (conductivity, % concentration, or TDS), not all of the following temperature compensation methods are available:

The following temperature compensation methods are available:

- Linear % per °C slope, user-entered temperature table, or no compensation

Sensor-to-Analyzer Distance Maximum cable length is a function of the measuring range and allowable non-linearity. The following schedule is recommended:

<u>Full-scale Range</u>	<u>Max. Length</u>
200 to 2000 mS/cm.....	200 ft. (61 m)
2000 to 2,000,000 mS/cm.....	300 ft. (91 m)

Note: When measuring % concentration, convert the analyzer full-scale value to conductivity to determine the maximum distance

Power Requirements 90-130 VAC, 50/60 Hz. (10 VA max.) or 190-260 VAC, 50/60 Hz. (10 VA max.)

Calibration Methods:

SAMPLE CAL (for cond.),

CONC CAL, and TDS CAL Enter one sample value (determined by laboratory analysis or comparison reading).

ZERO (for cond., % conc.,

or TDS)With the dry sensor in air, press keys to initiate automatic system zeroing.

Outputs: Analog Two isolated 4-20 mA outputs; each with 0.004 mA (12-bit) resolution and capability to drive up to 600 ohm loads

Note:Each output can be assigned to represent the selected measurement (conductivity, % concentration, or TDS) or

temperature. Parameter values can be entered to define the endpoints at which the minimum and maximum mA output values are desired. During calibration, both outputs are held at their present values.
 Memory Backup (non-volatile) ... All user settings are retained indefinitely in memory (EEPROM)

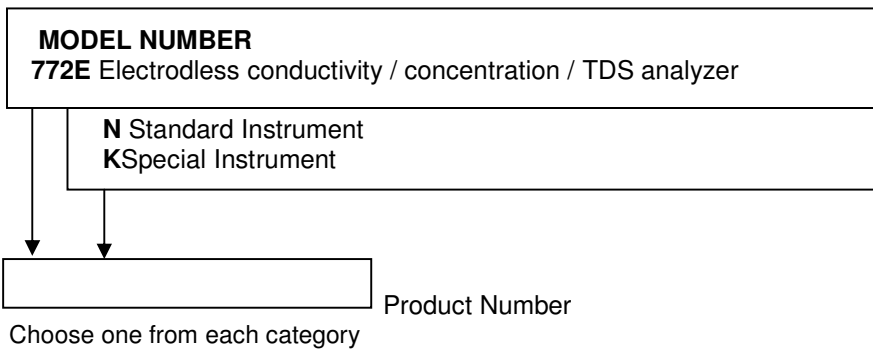
Analyzer Performance (Electrical, Analog Output):

Accuracy 0.5% of span
 Stability 0.05% of span per 24 hours, non-cumulative
 Repeatability 0.1% of span or better
 Temperature Drift .. Zero and Span : less than 0.02% of span / °C;

Mechanical:

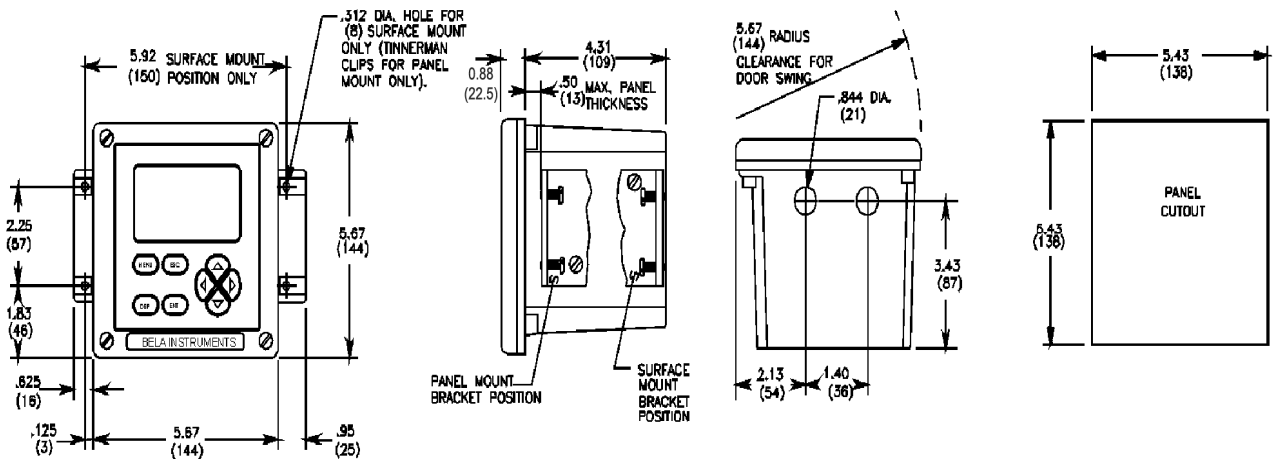
Enclosure NEMA 4X; ½ DIN Polycarbonate with four ½ inch conduit holes and two stainless steel mounting brackets.
 Mounting Conf Surface, Panel and horizontal pipe mount. Vertical pipe mounting optional
 Net Weight 3 lbs. (1.36 kg) approximately

Ordering Information



Dimensions

Inches (mm)



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For Upgradation, BI reserves the rights to alter the specifications at any time.