

Model 692E Two-wire Electrodeless Conductivity and % Concentration Transmitter

- Multiple readouts.
(Conductivity, concentration, temperature, mA output)
- Built in concentration table
- Four different temperature compensation method
- Define any solution in % concentration
- Simple automatic calibration.
- Measures conductivity or % concentration.
- Easy setup and operation.
- Diagnostics identify problems.
- NEMA 4X protection.



• Specifications

Operational:

Display.....4-1/2 digit LCD with measurement unit and setup variable identifiers,
7/8 inch high digits

Measuring Ranges: Conductivity.....0.0-500.0 µS/cm, 0-2000 µS/cm, 0.000-2.000 mS/cm,
0.00-20.00 mS/cm, 0.0-200.0 mS/cm, 0-2000 mS/cm
or 0.00-8.00 S/cm, selectable with user-entered full-scale value

Concentration.....0.0-100.0%

Temperature.....(-) 10.0 to (+) 200.0°C (14 to 392°F)

Ambient Conditions-20 to + 60°C (-4 to +140°F), 0 to 95% relative humidity, non-condensing.

Temperature CompensationNone, user-entered linear % per C slope, user-entered temperature curve, or
automatic over -10 to +200°C when built-in solution concentration conversion table is
used. Temperature sensor is 1000 ohm platinum RTD.

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

Full-scale Range	Max. Length
500 to 50,000 microSiemens/cm.....	100 feet
50,000 to 2,000,000 microSiemens/cm.....	200 feet

Power Requirements.....16-36 volts DC

Analog OutputsIsolated 4-20 mA with output hold feature

Range Expand - The 4-20 mA output can be made to represent any segment of the measuring scale.

□ Maximum Loop Load.....With 24 VDC supply: 400 ohms
(load in series with 692 With 32 VDC supply: 800 ohms
and power supply) With 36 VDC supply: 1000 ohms

**Transmitter Performance
(Electrical, Analog Output):**

Sensitivity0.3% of span
Stability0.1% of span per 24 hours,
non-cummulative
Non-Linearity0.5% of span
Repeatability0.2% of span or better
Temperature Drift ...Zero: 0.05% of span per °C;
Span: 0.025% of span per °C
Response Time1,3,10 or 30 seconds to 90% of
value upon step change, selectable

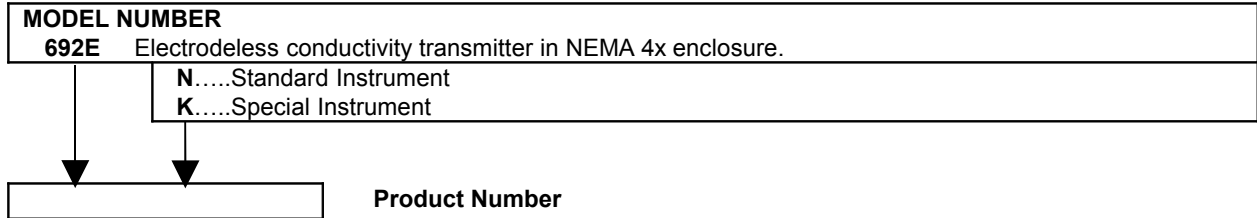
Mechanical:

EnclosureGeneral purpose – safe for Division 2;
NEMA 4X, Polycarbonate with Two ½
inch conduit holes and four stainless
steel mounting tabs
Mounting Conf....Surface mount; optional vertical or
horizontal pipe mounting
Net Weight3 lbs. (1.36 kg) approximately

Note: For long cable runs, the resistance of the wire must be considered and may decrease maximum load capability.

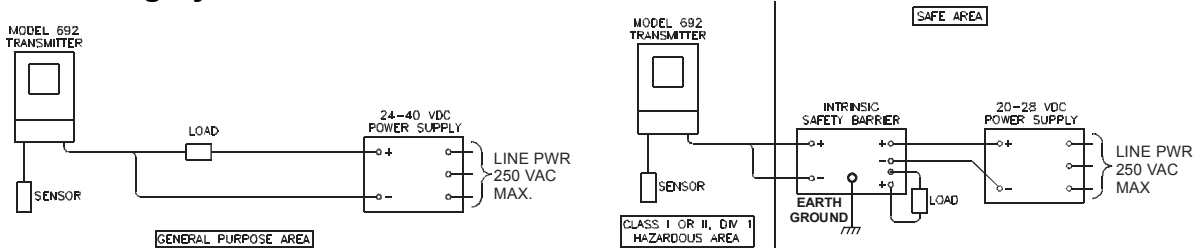
□Not applicable when using barrier for intrinsic safety.

Ordering Information



Choose one from each category.

Typical Wiring System



General Purpose Area Use (Powered without Barrier)

Hazardous Area Use (Powered through Barrier)

Dimensions

Inches (mm)

