

## UCL-520 — 2-Wire Transmitter for Midsize Tanks

- ▶ To 26-feet (8m) range with 2" transducer
- ▶ 2" NPT mounting
- ▶ Setup is fast and easy. Incorporates push button calibration and LCD display
- ▶ 6-segment LCD display indicates level in inch or centimeter values
- ▶ 7.6 cm minimum beam width for applications with restricted space
- ▶ Fail-safe intelligence with diagnostic feedback for easy troubleshooting

The UCL-520 is a general purpose two-wire ultrasonic transmitter providing non-contact level measurement up to 26.2' or 8m. It is ideally suited for challenging ultrapure, corrosive or waste liquids.

Push button calibrated, the UCL-520 is broadly selected for atmospheric bulk storage, day tank and waste sump applications. Media examples include wastewater and sodium hydroxide. The PC/ABS enclosure is rated NEMA 4X, and the transducer is housed in rugged PVDF.

### Specifications

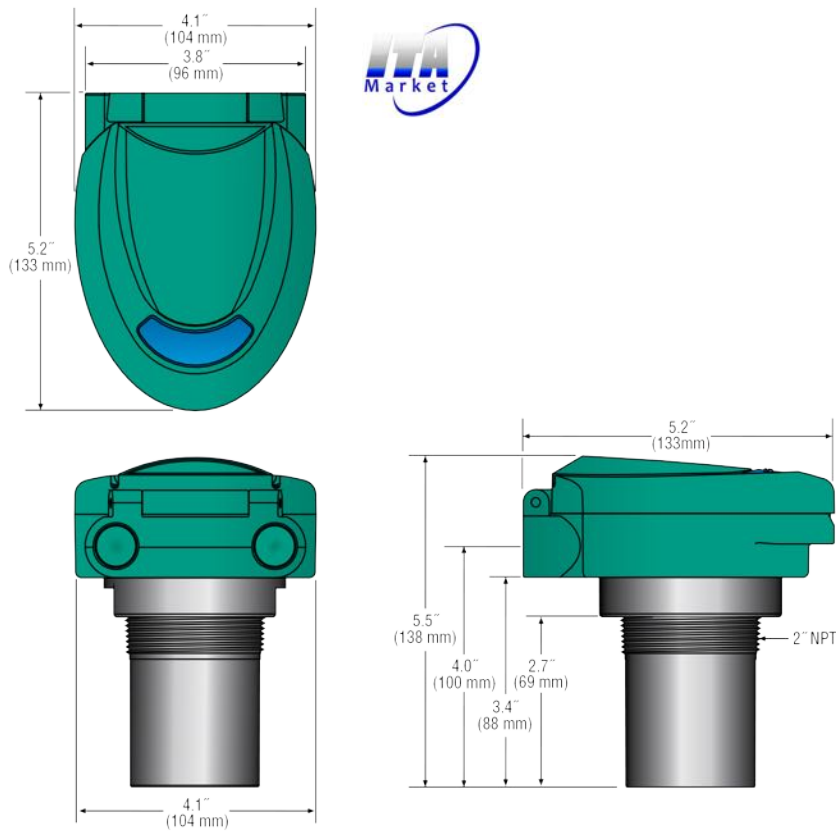
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|--------------------|---|
| Range              | 6' to 26.2' (1.8 m to 8 m)  |
| Accuracy           | ± 0.2% of span in air   |
| Resolution         | 0.039" (1 mm)   |
| Beam Width         | 3" (7.6 cm) dia.  |
| Dead Band          | 8" (20 cm)  |
| Display Type       | LCD, 6-digit  |
| Display Units      | Inch, cm or percent   |
| Display Mode       | Air gap or liquid height  |
| Memory             | Non-volatile  |
| Supply Voltage     | 12-28 VDC   |
| Loop Resistance    | 500 Ohms @ 24 VDC   |
| Signal Output      | 4-20 mA, two-wire   |
| Signal Invert      | 4-20 mA or 20-4 mA  |
| Calibration        | Push button   |
| Fail-Safety        | Selectable 4 mA, 20 mA, 21 mA, 22 mA or hold                                |
| Process Temp.      | -7°F to +140°F (-20°C to +71°C)   |
| Temp. Comp.        | Automatic   |
| Electronics Temp.  | -40°F to +160°F (-40°C to +71°C)  |
| Pressure           | 30 PSI (2 bar) @ 25°C,<br>derated @ 1.667 PSI (0.113 bar) per °C above 25°C |
| Enclosure Rating   | NEMA 4X (IP65)  |
| Enclosure Vent     | Water tight membrane  |
| Enclosure Material | PC/ABS FR   |
| Trans. Material    | PVDF  |
| Process Mount      | 2" NPT (2" G)   |
| Mount. Gasket      | Viton®  |
| Conduit Entrance   | Dual, 1/2" NPT  |
| Classification     | General Purpose   |
| CE Compliance      | EN 61326 EMC  |



### Typical Applications

- Water and Waste Water
- Petrochemical
- Health Care
- Mining
- Cleaning
- HVAC
- Chemical
- Semiconductor
- Agriculture
- Electric Power
- Water Parks/Swimming Pools

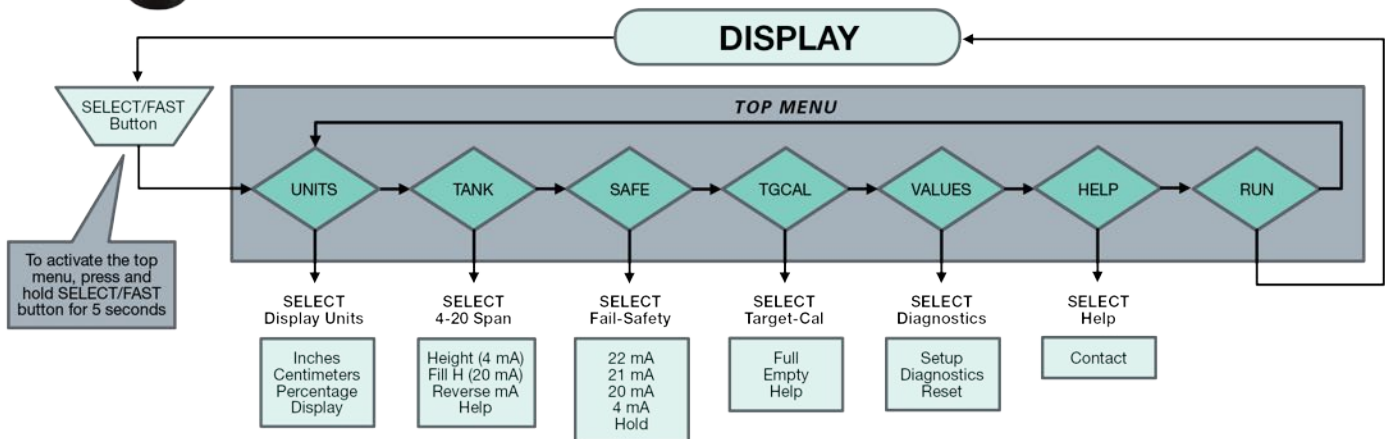
## Dimensions



## Easy Calibration



Calibration is fast and simple with our scrolling single layer menu, three button interface and 6-segment LCD display. Troubleshooting is easy with our unique Setup and Diagnostic feedback modes. Setup displays the transmitter's calibration set points. Diagnostics provides users with a snapshot of sensor performance and application variables. Gems UCL-520 is full feature level sensing made simple.



## How To Order

Select by Part Number.

| Description                | Part Number |
|----------------------------|-------------|
| UCL-520 2-Wire Transmitter | 225200      |