YSI 556 Multiparameter System

Versatile, multiparameter handheld instrument

Rugged and reliable, the YSI 556 MPS (Multiprobe System) combines the versatility of an easy-to-use, easy-to-read handheld unit with all the functionality of a multiparameter system.

- Simultaneously measures dissolved oxygen, pH, conductivity, temperature, and ORP
- Field-replaceable electrodes
- Compatible with EcoWatch® for Windows® data analysis software
- Stores over 49,000 data sets, time and date stamped, interval or manual logging
- Three-year warranty on the instrument; one-year on the probes
- GLP assisting, records calibration data in memory
- Available with 4, 10, and 20-m cable lengths
- IP-67, impact-resistant, waterproof case
- Easy-to-use, screw-on cap DO membranes
- RS-232 interface for PC connection

Options to Fit Your Applications!

- Battery Options – The unit is powered by alkaline batteries or an optional rechargeable battery pack with quick-charge feature.
- Optional Barometer – Internal barometer can be user-calibrated and displayed along with other data, used in dissolved oxygen calibrations, and logged to memory for tracking changes in barometric pressure. (Choose 556-02)
- Optional Flow Cell - The 5083 flow cell can be used for ground water applications or anytime water is pumped for sampling.
- Carrying Case – The instrument comes standard with YSI 5061, a soft-sided carrying case with enough space for the 556, a 20-meter cable, and calibrating supplies. An optional 5080 hard-sided carrying case is also available.
- Confidence Solution® - Quality assurance ensured. Quickly check conductivity, pH, and ORP readings with one solution.
### 5563 MPS Sensor Specifications

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Dissolved Oxygen</td>
<td><strong>(% saturation)</strong>&lt;br&gt;Range: 0 to 500% air saturation&lt;br&gt;Accuracy: ±2% of the reading, ±2% air saturation, whichever is greater; 200 to 500% air saturation, ±6% of the reading&lt;br&gt;Resolution: 0.1% air saturation</td>
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<tr>
<td><strong>(mg/L)</strong></td>
<td><strong>Sensor Type</strong> Steady state polarographic&lt;br&gt;Range: 0 to 50 mg/L&lt;br&gt;Accuracy: ±0.2 mg/L, whichever is greater; 0 to 20 mg/L, ±2% of the reading, ±0.001 mS/cm; whichever is greater (4-meter cable) ±0.5% of reading or ±0.001 mS/cm; whichever is greater (20-meter cable) Resolution: 0.001 mS/cm to 0.1 mS/cm (range-dependent)</td>
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<tr>
<td>Temperature</td>
<td><strong>Sensor Type</strong> YSI Temperature Precision ™ thermistor&lt;br&gt;Range: -5 to 45°C&lt;br&gt;Accuracy: ±0.15°C&lt;br&gt;Resolution: 0.1°C</td>
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<tr>
<td>Conductivity</td>
<td><strong>Sensor Type</strong> 4-electrode cell with autoranging&lt;br&gt;Range: 0 to 200 mS/cm&lt;br&gt;Accuracy: ±2% of the reading or ±0.001 mS/cm; whichever is greater (4-meter cable) ±1.0% of reading or ±0.001 mS/cm; whichever is greater (20-meter cable) Resolution: 0.1 mV</td>
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<tr>
<td>Salinity</td>
<td><strong>Sensor Type</strong> Calculated from conductivity and temperature&lt;br&gt;Range: 0 to 70 ppt&lt;br&gt;Accuracy: ±0.1 ppt, whichever is greater&lt;br&gt;Resolution: 0.01 ppt</td>
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<tr>
<td>pH (optional)</td>
<td><strong>Sensor Type</strong> Glass combination electrode&lt;br&gt;Range: 0 to 14 units&lt;br&gt;Accuracy: ±0.2 units&lt;br&gt;Resolution: 0.01 units</td>
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<tr>
<td>ORP (optional)</td>
<td><strong>Sensor Type</strong> Platinum button&lt;br&gt;Range: -999 to +999 mV&lt;br&gt;Accuracy: ±20 mV&lt;br&gt;Resolution: 0.1 mV</td>
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<tr>
<td>Total Dissolved Solids (TDS)</td>
<td><strong>Sensor Type</strong> Calculated from conductivity (variable constant, default 0.65)&lt;br&gt;Range: 0 to 100 g/L&lt;br&gt;Resolution: 4 digits</td>
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<tr>
<td>Barometer (optional)</td>
<td><strong>Range</strong> 500 to 800 mm Hg&lt;br&gt;Accuracy: ±3 mm Hg within ±10°C temperature range from calibration point&lt;br&gt;Resolution: 0.1 mm Hg</td>
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</table>

### YSI 556 Instrument Specifications
- **Size**: 11.9 cm width x 22.9 cm length (4.7 in. x 9 in.)
- **Weight with batteries**: 2.1 lbs. (916 grams)
- **Cables**: 4, 10-, and 20-m (13.1, 32.8, 65.6 ft.) lengths
- **Warranty**: 3-year instrument; 1-year probes and cables
- **Communication Port**: RS-232 Serial
- **Data Logger**: 49,000 data sets, date and time stamp, manual or logging, with user-selectable intervals

### 556 Ordering Information (Order all items separately)
- **556-01**: Instrument (with 5061 large, soft-sided carrying case)
- **556-02**: Instrument with barometer option (with 5061 carrying case)
- **5563-4**: 4-m cable and DO/temp/conductivity
- **5563-10**: 10-m cable and DO/temp/conductivity
- **5563-20**: 20-m cable and DO/temp/conductivity
- **5564**: pH Probe for any 5563 cable
- **5565**: pH/ORP Probe for any 5563 cable
- **6118**: Rechargeable battery pack kit (includes battery, adapter, charger)
- **614**: Ultra clamp, C-clamp mount
- **616**: Charger, cigarette lighter
- **4654**: Tripod (small tripod for instrument)
- **5060**: Small carrying case, soft-sided (fits instrument and 4-m cable)
- **5065**: Form-fitted carrier with shoulder strap
- **5080**: Small carrying case, hard-sided (fits instrument, 4-m cable, flow cell, batteries, membrane kit, calibration bottles)
- **5083**: Flow cell
- **5085**: Hands-free harness
- **5580**: Confidence Solution™ (insure probe accuracy with a simple field-check for conductivity, pH, and ORP)

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